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The year now drawing to a close, marked as it has been by war, famine, and nnxiety all through the world, will hardly leave many regrets behind it: it can hardly give place to a worse one. The new year may have in store the blessings of peace and a revival of commerce. We approach it hopefully, though not with too great confidence.

Pharmaceutically the year has been an interesting one. It is not our task here to recapitulate its events. The well-filled index which accompanies the present number of our journal indicates sufficiently the history of the past twelve months, so far as chemists and druggists are directly concerned.

Our nineteenth volume, which we now complete, again contains over 500 pages of literary matter. We are more likely to increase than to diminish that number in the year before us. The trade never more than now needed an independent organ, and we have earnestly striven to defend the honest interests of chemists and druggists. We are pleased to add that, during the current year, our subscription list has been considerably augmented, but we particularly desire to retain our old subscribers, and we shall take it as an especial favour if those who receive in this number intimation of the expiration if their subscription will have the goodness to send their remittances for another year at as early a date as convenient.

We have sent to all subscribers during the past month a copy of our Diary for 1878. In this we have made several

useful additions, in order to render it especially serviceable as a work of reference for phnrmaceutists. The Globe Parcel Express Company have contracted with us to deliver all Diaries in the United Kingdom, free of charge, to the consignees. In the event of uon-delivery or of charges having been made in auy case by accident, we request the favour of a communication.

The long-looked for and important legal contest between the apothecaries and the chemists was opened last month in the Court of Exchequer. Sir Henry James, Q.C., M.P., the counsel for the chemists, who has taken an especial interest in this case, had commeuced a speech which was evidently likely to be a very long one. But before he had developed his argument the judges intimated their opinion that the evidence should he re-heard, as in their view the point at issue turned on the practice of the trade at the time of the passing of the Apotheearies Act. Sir Henry James gladly accepted their suggestion, which became an order, notwitbstanding the protest of the counsel for the apothecaries. The case will therefore be re-tried in that court. The opposition of the apothecaries' counsel to this course sufficiently indicates to which side the advantage of this preliminary encounter leans. We give a verbatim report of the trial, taken by our own reporters.

It will be observed from the report of the meeting of the Executive Committee of the Chemists' and Druggists' Trade Association that there is an unhesitating determination on their part to fight this most important ouestion to the highest tribunals, if snch should be necessary. It is evident that the proceedings as they are being conducted must be very costly, but as the rights involved are admittedly almost essential to the existence of the trade of a chemist and druggist, it is sincerely to be hoped that the association will be cordially snpported in their enterprise.

Among some press opinions on the "counter practice" case we have pleasure in publishing a short article which appeared in the Globe. That journal secs that the case is one "of much social interest," and concludes that "if the ruling of the Connty Court indge be upheld a man who may take poison by mistake may not be able to get an emetic in time to save his life."

The Trade Association has decided to hold its second annual meeting in London in May, 1878.

The Birmiugham and Midland Counties Chemists intend to bold a soirée aud exhibition ou January 23.

The Glasgow chemists are again barking at the Pharmaceutical Council on the subject of the Preliminary Examination. Mr. Fairlie, of Glasgow, also complains, in a spirited address, of the small benefit which the society gives to the provinces in the matter of education.

The Coventry chemists bave formed an association, and the Edinburgh assistants have started an annual supper.

Original pharmacoutical papers appear in this number on compound mixture of iron and nromatic mixture of iron. We nlso print abstracts of other scientific contributions.

The Pharmaceutical Council has invested a further 2,000%, in Three per Cents., the president expressing a hope that the society might some day buy a freehold home for itself. The Council has also gone into committee on the counter practice question.

The Post Office proposes from January 1 to reduce the fee for registering letters from 4d. to 2d., and at the same time to be responsible to the extent of 2l. As a set-off to this advantage the anthorities will raise the charge for money orders.

The Birmingham Inspector of Nuisances made a most extraordinary mistako last month in testing some petroleum. On his certificate some 12,000 gallons were seized at the railway

station, but had to be afterwards surrendered when the oil came to be tested by a competent authority.

The Court of Appeal has given a very definite judgment in the dispute between Mr. II. Bollmann Condy and the Condy's Fluid Company. The judges, without hearing the case for the defendant, unanimously pronounced against Mr. Condy, who will have to pay the costs of both actions.

Mr. Hickisson, the proprietor of the famous "Daughter," has obtained an injunction against Mrs. Murphy, prohibiting her use of the title of "Bond" in conucction with marking ink. The Court of Common Pleas thus supports the Marriage Bond.

Legal decisions on the Sale of Food and Drugs Act are getting more and more incomprehensible. Generally it must be admitted the vagaries of magistrates have all leant one way, but at last we meet with a stipondiary who leaps on the other side. A chemist at Willenhall sold come "Pil. quiniæ, B.P.," which, it seems, contained only half their proper proportion of quinine. The magistrate refused to convict; he said B. P. might mean anything, and people could take ten pills instead of five. The decimal fraction seems to have been the stumbling block.

We give a fuller report of the important case mentioned last month of a trial under the Sale of Food and Drugs Act for selling eoda water not of B. P. strength. The Selby magistrates convicted one dealer whose product contained no alkali, but enother, whose bottles contained $3\frac{1}{2}$ graine each, was acquitted, though costs were not allowed. This is very unfair. Soda water was an article of commerce long before the Pharmacopæin took any notice of it, and no one has any right to require Pharmacopæia strength unless he express his desire in the plaiuest terms.

The treasurer of the British Pharmaceutical Conference reports that he has sold out the Russian bonds in which some of the wealth of the Couference was invected, and transferred the property to Consols. The "Year-Book" for 1877 will be distributed in Eogland, we are informed, before Christmas. The meetings of the Conference for 1878 in Dublin are fixed for August 13 and 14.

Those of our resders who sell agricultural seeds will be much interested in the ease reported among our legal information of the conviction of a person who had supplied killed charlock seed for the purpose of mixing with turnip seed. Such a fraud ought to be punishable with imprisonment, as it has been etated that it is eo profitable that the principals engaged in the business can well afford the fines.

Under the head of accidente we report a sad one at Sedgley, where a man was killed in a chemist's shop by a lad firing off a loaded gun. Another at Crickhowoll, where an immense amount of damage was accomplished in a few minutes through some one putting a light to a quantity of horse powders lying on the counter made of nitre, sulphur, and antimony.

We direct attention to the announcement in our editorial notes that our next volume will contain a translation of a German book, giving analyses of over a thousand secret preparations—English, French, German, and American.

Three Scotch chemists have been fined 121. 10s, each at the Dunblane Court for selling spirits of wine without a license. In each case the judgment was accompanied by a recommendation that the fine should be remitted as far as possible. One of the chemists had sold methylated spirits also without a license, thereby subjecting himself to a second fine of 121. 10s.

M. James S. Hicks deals in our correspondence column with the attitude assumed by the *Pharmaccutical Journal* towards the Temperance Question. The subject of killing dogs and eats continues to excite considerable attention, and the numerous statements of experience which we receive do a good deal to decide the question which first elicited them.

Pharmacalia.

An heroic act of self-devotion on the part of one of the nursing sisters of the Order of Troyes would at any time be worthy of record; still more does it deserve mention here as it adds another fact to the sad history of hydrophobia. Sister S. was in charge of some convalescent children for a walk, when they were assailed by a cheep-dog in the last stage of rabies. Seeing the danger she rushed between the infuriated ereature and her charge. She was severely bitten, and the dog in its fury turned upon the children. The poor little things were too terrified to run away, but the true saur de charité threw herself on the mad beast, and for ten minutes rolled over with it, having thrust her fist into its mouth. Some peasants came at last, beat it off, and killed it. The Sister received fifteeu wounds on her hands, her arms were lacerated, and an important artery was wounded. Such skilful attention was bestowed that for a short time after her return to Parie there was hope of recovery; but in a few weeke the dreaded symptome made their appearance, and the nurse, whose heroism had saved five ehildren, died in agony. We need not by words of praise attempt to gild the glory of the deed.

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Hydrophobia is unfortunately a current topic of the day. Medical journals and newspaper literature both teem with cases of nttack and proposed remedies. The vapour bath seems to promise some reliable results; detaile of its mode of action and reported instances of its success may be gathered from the daily papers. We note that doubte appear to be east upon the efficacy of lunar caustic and the actual cautery. We regret this extremely, for both may do good, and they remove the element of fear, the influence of which upon the system no one sbould despise. Mr. John Mess has written a paper on enrara, a remedy for rabies. It is the arrow-poison used by the South American savages. He gives nn historical account and describes its preparation, then its properties and antidotes. He combats the notion that the poieonous properties of eurara are due to strychnia; so far from that, it has been shown by Vella that each is an antidote to the other. Curarine, well described by Dragendorff, is the active principle. Its best solvent is glycerine, which dissolves 85.2 per ceut, of curara when left in contact with it for twenty-four hours and filtered. This obviously would be the best method of preparing it for hypodermic injection; but the solution eauses great pain, and it is therefore preferable to use water, in which curara is likewise soluble to the extent of 83 per cent. The dose of curara used solely as a subcutaneous injection may be stated as from a quarter to half a grain. The preparation recommended is one grain of enrara dissolved in twelve minims of distilled water.

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The University of Cambridge has gained additional lustre by having conferred the degree of Doctor of Laws upon Charles Darwin. Late though the title has been bestowed, it will be welcomed as a fitting recognition of one of the foremost philosophers of his age, and it will be regarded as one of thoso exceptional distinctions which reflect honour both "on him that gives and him that takes." To eulogiee the profound knowledge and splondid power of generalisation of the author of "Tho Origin of Species" would be a foolish thing. The great mass of the public are competent to seize the broad outline of his investigations; there are few who have the preliminary knowledge to enter into or to criticise his details. Riotous were some of the proceedings on the eventful Saturday when the receptiou of the new Doctor of Laws took place. The undergraduatee forgot that there were bounds within which exuberant spirits should be restrained. The public orator had a hard time of it when, in his choicest Latin, he introduced the candidate. Youth

will have its fling, and we are not disposed to be hypercritical. So let the stuffed baboon, the catcalls and the comic songs be accepted as not intentionally offensive merriment. In one point all will agree, in a sincere admiration for a man who for so many years has laboured in the cause of science, who, with singleness of purpose, has lived only for the advance of truth, and who has presented so fine an example of devotion to the study of the laws of nature.

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Those who admire the beautiful in connection with the discoveries of science cannot do better than turn for a moment to the illustrations of the birds collected by Professor Steere in the Philippine Archipelago. They will be found in the last number of the "Transactions of the Linnean Society." The drawings and their brilliant colouring were executed by J. G. Kenlemans, a young Dutch artist, who has struck out for himself the speciality of bird delineation. The paper on the subject is by Mr. R. B. Sharpe, of the British Museum. Professor Steere, while engaged in his task, which resulted in the discovery of forty new species, had more than ordinary perils to encounter. He visited several islands hitherto untrodden by the naturalist, and constantly suffered from severe attacks of fever contracted in Balabac. That was a passing eloud; but he was in chronic danger of pirates, and gathered his specimens in the company of native hunters and their dogs, the latter being indispensable companions to give warning of the approach of the Malays. In the Island of Basilan it was impossible even to bathe under the shelter of the fort without keeping fire-arms at hand for personal defence. We may congratulate the learned Professor both on his courage and on his discoveries.

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A sensible and most convenient mode of publication has long been adopted by the Geological Society of Loudon. It consists in printing regularly an abstract of their proceedings, so that the members and the public are kept well informed of the meetings held, the papers read, and the discussions which may have ensued. The little pamphlet in which this information is cenveyed is drawn up in a very satisfactory manner. A frequent subject of discussion amongst the directors of our learned societies is in what way the evening meetings, which appeal to the general body of the members, may be made most acceptable. When the matter was urgently brought before the Linnean Society two or three years ago, special allusion was made to the benefit derived from the issue of these published abstracts. One immense advantage is common to the various learned bodies which are in the habit of assembling beneath the roof of Burlington House: they have emancipated themselves from the necessity of continuing their discussions up to an inexorably fixed hour. When there is a short paper there is a short meeting, and the padding which is designed to fill up the interval between 8 and 10 o'clock is omitted. Once set free from the notion that it is necessary to write a sentence or to speak a syllable beyond the requirements of the ease, and the whole tone of the evening's deliberations is raised. Now and then it happens that a distinguished savant has to bring before his hearers matter of high importance-something that for a lifetime has occupied his attention. Then every seat is filled, and a wonderful andience is collected of representative and distinguished men. No higher compliment can be paid to the lec-

turer, and no keener acknowledgment of his ability, than the

unbroken attention with which his opinions are received. Such

occasions are comparatively rare; but when they do take place,

who grudges when the hour may have been forgotten by the

man? Now and then it happens that the stream runs low and

the treasury runs short. We cannot every day invent a tele-

phone, or describe a radiometer. Huxley cannot charm for ever

by his research and natural elequence; Darwin cannot monthly

lead us into newly discovered truth; Tyndall must occasionally be silent; while Sir John Lubbock must have time before he can give us further information about Wings and Stings. Then comes the blessed thought that men who have got no strew aronot compelled to keep up an appearance of making bricks. An occasional short scientific meeting is one of the pleasantest experiences, often one of the most useful. With a little tact a man may fairly advance his knowledge in the unrestrained freedem of conversation; and we are bound to confess our indebteduces to the social as well as to the scientific aspect of many of our evening meetings.

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These remarks are not in allusion to the Wodnesday night conference (December 5) at Bloomsbury Square, but it must be owned that in some respects they might apply. The executive are prayed to recollect that all members do not live in the immediate viciuity of the Inns of Court Hotel, and that there are even some for whom the Metropolitan companies will not make special arrangements. Whilst towards the small hours we reached our modest residence, and were reminded of the commencement of another day by the suburban chemists positively putting up their shutters, we had ample time to reflect on the late proceedings of our society. The first paper read and discussed was excellent, being a discourse by the President, Mr. John Williams, on the preparation of the nitrite of ethyl, which he wished to be understood was not a contribution on the manufacture of sweet spirit of nitre. During this portion of the evening the chair was taken by Mr. G. Webb Sandford. Other papers followed, the shorter ones being read, the rest given in abstract, amongst which latter was a communication by Dr. Tilden on an aromatic Russian oil of turpentine, with further remarks on the same subject by Mr. Postans. Wo take exception to some of the observations made on the Rheum officinale grown in England: not to the remarks themselves so much as to the drawing any comparison between a plant which has only been under cultivation for three years and a root which, under different conditions of soil and climate, has been cultivated for some centuries. We submit that there are scanty grounds for differential estimation. At present we must be content to wait and reserve opinion, or confine onr statements to the particular sample of rhubarb under examination. With regard to the colour of powdered rhubarb, wo consider that it is no indication of strength or weakness, or of quality, as by mechanical means any sample may be made to assume any shade of colour. The colour of the old Russian variety varied from year to year, and the East Indiau likewiso, though to a less degree; but a little laboratory skill, with no admixture whatever, will produce any tint, from dark brown to the brightest yellow. It is, however, a step in the right direction to attempt the acclimatisation of valuable medicinal plants, and from its strong and rapid growth there is a reasonable hope that Rheum officinale will repay the care bestowed

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A plant with a strange history, and a beautiful plant withal, is figured in the last issue of Hooker's "Icones Plautarum." It is the Lampra Volcanica (Bonth.), Commolynaceæ. Of this eurious plant, says Bentham, only a single specimen is known, which was gathered by Hartwig in the crater of the Volcan de Agua, in Central America, at an elevation of 14,000 feet, in Angust, 1840. The volcane is near Guatemala. Mr. Salvin, on his last journey to that country, undertook further search but his ascent of the mountain was not at the same time of the year, and no traces of the Lampra could be found. As the plant which seems to have chosen so strange a resting place is said to be very ornamental, its introduction to our hot-houses would be desirable.

While on botanical subjects we must not forget to mention the prize founded by Augustin-Pyramus de Candelle for the best monograph on a class or family of plants. Public competition for this is invited by la Société de Physique et d'Histoire Naturelle of Geneva. Manuscripts may be written in Latin, French, German, English, or Italian, addressed, post paid, before October 1, 1879, to M. le professeur Marignac. corresponding secretary, Geneva. The value of the award is 201., and we see no reason why some of our Major examined men should uet compete.

How a false statement once made continues to be handed dewn to posterity with a strange vitality of its own is well described by a writer in the Chemical News. There is a little Parisian book, published at one franc, called "Agendas Dunod." Like others of its class it gives in a very concise form much useful information on thinge chemical, the present number (4) being devoted to "Arts and Manufactures." Amongst other things it coutains a chapter on the Spectroscope, taken from the "Cours Elémentaire de Physique" of MM. Boutan and d'Almeida. In thie ie reproduced a paseage which deliberately assigns the sole discovery of the metal thallium to M. Lamy. Translated it is as follows, the original being quoted in the Chemical News: - " Later, in the month of May, 1862, M. Lamy succeeds by the use of the same method to add to the list a third metal, thallium, which he was able to extract in rather large quantities from the remains of the lead chambers collected in a factory where sulphuric acid was prepared by the combustion of iron pyrites. Before him, it is true, M. Crookes had perceived the special characteristics of thallium in operating on the residues of certain celleniums, but he was not able to isolate it, and even considered this body as a metalloid analagous to selenium or tellurium." M. Dumas, in his report to the French Academy of Sciences, embodies the same gross misstatement (December 15, 1862). A full and direct refutation was conveyed by Mr. Crookes in the Philosophical Magazine, July, 1863. Neverthelese, the misstatement (term of euphony), thus contradicted, and also condemned by all the leading scientific meu of that day, has been perpetuated in every euccessive edition of the "Conre de Physique," it is now transforred to a popular manual, and in Mr. Murray's last edition of "Mrs. Somerville's Physical Geography" our English chemist is refused his share of honour. In connection with thallium and the spectroscope, we should mention that the Society for Promoting Christian Knowledge has just issued a shilling manual by Richard A. Proctor, called "The Spectroscope and its Work." It is corrected down to a very recent date, and may strongly be recommended as a clear exposition of the subject of which it treate. The name of the author is sufficient guarantee for the character of the work.

Now we stand once more upon the threshold of a new year, and the joye and sorrows of the past must fade into the world of shadowe. We can but live our day, and try to do our best. Heartily we wish our readers, not the compliments but the realities of the ecason—a cheerful mind and a hopeful confidence in the future. Not many events of absorbing interest have taken place in pharmacy, and the chemist, in the midst of a bad war and unsettled trade, has pursued his quiet way. "Pharmacographia," by the light of which new text-booke have been written, and which has proved a store-house of informatiou, hae sold out its last copy. As yet there have been no tidings of a fresh odition. A French version will perhaps have to supply its place. The "Medicinal Plants" of Messrs. Bentley and Trimen have gained an enviable circulation, and passed into our standard literature. Professor Roscoe has issued hie larger "Chemistry," a work which will suetain and increase the writer's reputation. Other treatises of an elementary

character have appeared, and still the truth is manifest that of writing books there is no end. Schoole of technical education have arisen on all sides, and there has been an intense awakening in this direction. The British Pharmaceutical Conference has held another session, with the advantage of having its counsels placed under the guidance of Professor Redwood. Two women have knocked at the door of the parent institution, and have been refused admission; neither have been taken, though both, by law established, are grinding at the mill. They have been told to call again next May, when perhape a more liberal policy may see its way to stricter justice. Mr. Shepperley has called at Westminster, but to his case, which pharmacists may well watch with keen interest, if not with anxiety, we do not here farther allude. The Trade Association might take for their motto, "Facta non verba." They are entitled to the thanks of the whole community for their exertions. We have to note the decided advance made by many of the younger generation of pharmacists in their professional career as chemists. Many amongst them are fully able to enter upon the path of original research and to extend the science of their calling. Finally, we have to thank many correspondents for the interest they have taken in these Pharmacalia Notes. It has been our conetant aim to widen the circle of pharmaceutical information, and to allude to various topics bearing on our occupation; and though, advisedly, we have wandered often into other fields, we have never forgotten that pharmacy must claim our first and best attention.

The Chemists' and Druggists' Trade Association.

A MEETING of the Executive Committee was held at the office of the association, 23 Burlington Chambers, New Street, Birmingham, on November 26, 1877, at 1 P.M.; Mr. S. U. Jones (Learnington) president; Mr. Thomas Barclay (Birmingham) vice-president. Present:—Messrs. Andrews (London), Arblaster (Birmingham), Churchill (Birmingham), Croes Chremsbury), Delves (Exeter), Earle (Hull), Fairlie (Glasgow), Greenielt (London), Jervis (Sheffield), Johnson (Malvern), Reynolds (Leeds), Shaw (Liverpoel), Southall (Birmingham), G. Walker (Coventry), R. Walker (Birmingham), and the Solicitor of the Association.

The President said he regretted to announce the death of a member of the committee, Mr. William Laird, of Dundee; he was quite eure all gentlemen present would sympathise with Mrs. Laird and family in their great bereavement.

Letters were read from Messrs. Brevitt, Greaves, Hampson, Wordsworth, and Mackenzie regretting their inability to attend. The minutes of the Executive Committee meeting held ou May 25 last, and of the proceedings of the sub-committees since

that date, were read and approved. The report of the Law Committee was then read, when it was moved by Mr. Reynolds, eeconded by Mr. Andrews, and unanimously resolved. That the report of the Law Committee be received, adopted, and entered on the minutes. The report of the Finance Committee was read, and it was moved by Mr. Greenish, eeconded by Mr. Shaw, and unanimously resolved, That the report of the Finance Committee be received, adopted, and entered on the minutes. The bearing of the decision in the appeal in the case of The Apothecaries' Company v. Shepperley was discussed.

The solicitor explained that previous to the hearing of the appeal he had several consultations with the counsel retained by the association to argue the case, and they considered it a question of vast importance, not only to the trade, but also to the public at large. They all, especially Sir Henry James, took great interest in the matter, and the result, he was pleased to say, was an order for a new trial of the whole case to be made by writ of certiorari to a Superior Court.

Mr. Barclay thought they should express their hearty thanks to Mr. Glaisyer for the interest, anxiety, and trouble he had taken in the case. The work had been heavy, and he believed the success achieved-they certainly had achieved a successwas due in a large degree to the ability and amount of time he

had expended in working up the case.

The Solicitor thanked Mr. Barclay for his remarks, and, in reply to a question, said Shepperley's case would not necessarily rule Wiggins' case. At present the committee had not particulars of the latter case.

Mr. Greenish inquired if the Solicitor knew of any persons able and willing to give evidence as to the practice of chemists and druggists prior to the passing of the Apothecaries Act in

The Solicitor said four or five gentlemen were willing to give evidence as to the custom of the trade before or ahout 1815. It would be well to seek for additions, but no doubt others would come forward before the new trial and volunteer evidence. He further said, in reply to questions, that he had written to the clerk of the Apothecaries' Company several months since requesting him to refrain from taking proceedings against other chemists and druggists until the case of the Apothecaries Company v. Shepperley had been decided. The reply he received was to the effect that the Apothecaries Company would give no such undertaking; each case stood on its own merits.

Mr. Southall said that, in his opinion, there was no doubt the County Court judges would postpone the decision is any case coming before them under the Apothecaries Act, pending

the new trial in Shepperley's case.

The Solicitor was instructed to take all necessary steps to obtain a definite decision in the Apethecaries Company v.

Shepperley.

The Secretary inquired if he should cause a report of the appeal to be printed and circulated to the trade. A resolution had been passed by the Law Committee on the subject; but as the surroundings of the case were somewhat altered since that meeting, he should be glad of renewed instructions; he also asked if he might pledge the association to fight the case through the highest possible tribunals.

The President said the secretary might so pledge the association; and in his opinion, a report of the case should be printed

and circulated to the trade.

Mr. Barclay said everyone connected with the trade was interested in the proceedings; and as there had been a very short report in the daily newspapers, he thought it very desirable that the report should be circulated, in order that every chemist and druggist should know the position of the case, and the amount of money the association was speading in defending this great trade question. Such a report ought certainly to considerably increase the number of members of the associa-

Mr. Shaw thought the action of the association in the case could not fail to elicit the sympathy of the whole trade.

The Sccretary was instructed to prepare a circular, appealing to the trade for support in deciding the question, to be forwarded with a report of the hearing of the case to each chemist and

druggist named in "Kelly's Chomists' Directory.

A report of the proceedings of the Scotch Committee was read by Mr. Fairlie, and it was decided on the recommendation of that committee to pestpone the whole of the elections of the General Committee for England, Walcs, and Scotland until March, 1878. Moved by Mr. Greeuish, seconded by Mr. Shaw, and unanimously resolved-

That Mr. James Colquboun, of the firm of Messrs, H. J. & D. T. Colquboun, 158 St. Vincent Street, Glasgow, be appointed sollcitor to the Scotch branch of the association.

Some considerable discussion took place on sections 14 and 15 of "Tho Sale of Food and Drags Act, 1875." It was explained by the solicitor that by the 14th section, it was enacted that a purchaso having been made of any nrticle within the meaning of the Act, for the purpose of analysis, the purchaser "shall offer to divide the article into three parts to be then and there separated, and each part to be marked and sealed or fastened up in such manner as its nature will permit, and shall, if required to do so, proceed accordingly, and shall dcliver one of the parts to the seller or his agent.

The Secretary said as a rule chemists refused to accept the duly-sealed official sample of articles purchased by inspectors appointed under the Act, and that on more than one occasion the association had been put to considerable expense in endeavouring to obtain sealed samples from the nutherities after proceedings had been commenced for alleged adulteration of articles sold. It would be advisable to take steps to so amend the 14th section that it should be compulsory for the official making the purchase to leave a third portion duly sealed

in the hand of the vendor. Mr. Shaw moved, and Mr. Arblaster seconded, a resolution recommending such a modification of the Act, and referring the subject to the Law Committee to take action when a suitable occasion should arise.

Mr. Barclay thought it would be well to decide upon the place at which the next annual meeting of the association should be held.

Manchester, Leeds, Sheffield, and Birmingham were mentioned, but finally it wasMoved, by Mr. Fairlie, seconded by Mr. Greenish, and

unanimously resolved-

That the Second Annual General Meeting of the Association be held in London, on the third Tuesday in May, 1878.

British Pharmaceutical Conference.

MEETING of the Executive Committee took place on December 5, 1877, at 10.30 A.M., at 17 Bloomsbury Square, London. Present:—G. F. Schacht, Esq., president, in the chair, Professors Redwood and Attfield, and Messrs. Williams and

The minutes of the previous meeting were read and confirmed.

The late treasurer (Mr. Schacht) reported that, in accordance with the instructions given him at the previous committee, he had disposed of the Russian securities of the Bell and Hills Fund, and had re-invested the proceeds in Consols. Also that there had been transferred from the General Fund to the Bell and Hills Fund the sum necessary to raise the income of the latter fund, from Consols, to a clear ten pounds a year. The treasurer's books and documents had been handed to his successor, Mr. Ekin.

THE HANBURY BOOKS.

Professor Attfield reported that in accordance with the wishes of Mr. Thomas Hanhury, and with the instructions of the committee, he had sent a copy of the "Pharmacographia" and of the late Daniel Hanhury's "Science Papers" to the libraries of the Pharmaceutical Associations of Bath, Birmingham, Nottingham, Exeter, Liverpool, Edinburgh, Brighton, Bradford, Londoa, Bristol, Glasgow, and Plymouth, and that he had received very hearty acknowledgments from the officers of the respective societies. A printed statement had been placed inside the cover of each book, explaining that is 1877 Thomas Hanhury, Esq., in memory of his late brother, Daniel Hanbury, F.R.S., presented thirty copies of each of these books to the Executive Committee of the British Pharmacoutical Conference, with the request that a copy of the "Science Papers" and of the "Pharmacographia" should be given to the library of the Pharmaceutical Association of every one of the fifteen towns in which the Conference had already met, or where it would assemble during the succeeding fifteen years.

Dr. Alfred Senier was appointed assistant secretary, at a

salary of 40l. per annum, to commence from November 1,

The senior secretary was instructed to write to Mr. Siobold as soon as the editorial work for the current year was quite completed, offering him the editorship for the year 1877-78, on the following terms :-

1. That the salary be 150l., payable when the completed

volume is issued by the printers.

2. That the manuscript of the "Year-Book" be placed on the table at the annual meeting at Dublin in August, 1878, complete in every respect excepting the introduction.

3. That the introduction be completed and forwarded to the

printers on or before October 1, 1878.

4. That no manuscript he interpolated in the printed proofs without the permission of the president or one of the general secretaries.

Professor Redwood proposed, and Mr. Thresh seconded, a resolution is accordance with the five previous paragraphs.

Professor Attfield submitted a proof of a circular of invita-tion to membership, preposed to be sent to all persons interested in pharmacy in Ireland, provided such action met with the approbatiou of the Irish committee now being formed to promete the success of the meeting in Ireland in August, 1878. The committee accepted the proof, and ordered copies to be printed and circulated, subject to the wishes of the Irish committee.

The secretaries submitted an account of receipts and disbursements since the provious meeting of committee.

The Pharmacentical Conneil.

ONLY 15 members were present at the December meeting, Messrs. Brown, Cracknell, Hampson, Hanbury, Owen, and Rimmington being absent. The first business was the appointment of examiners. On the English Board, Mr. Haselden retired, and was replaced by Mr. Henry B. Brady, of Newcastleon-Tyne; on thu Scottish Board, Mr. Buchanan, of Ediuburgh, retired, and was succeeded by Mr. Alexander Noble, of 139 Princes Street, in the same city. Mr. Haselden, it was mentioned, retired on account of ill health.

It was resolved that the examinations should be held during 1878 in February, April, June, July, October and December in England, and in Fubruary, April, July, October, and December

in Scotland.

Mr. Hills said he hoped it would not be forgotten to arrange for a deputation from the London Board visiting the Edinburgh examination. Some littlu difficulty, it appeared, had been occasioned lutely by the London Board having passed a regulation denying to candidates who had failed information as to the subjects in which they had proved deficient. The Scottish Beard, not having been informed of that regulation, had gone on giving the information as before, and Mr. Mackay thought it only

fair that it should be given.

A letter was read from the Glasgow Chemists' Association signed by the president and sceretary, expressing as the unanimous resolution of the council of that association, the opinion that the Preliminary examination as at present conducted "was too severe as an entrance qualification to the trade, and that if such a standard be continued great difficulty will be felt in securing apprentices." The secretary, in reference to this, showed by figures that the general percentage of failures was actually lower since the questions had been set by the College of Preceptors than it had been for several years previously, though in 1877 it was higher than it had been in 1876. Mr. Atkins thought if lads would pass this examination immediately on leaving school they would find it easier than if they waited a few years. Mr. Mackay said the leading pharmacists in Edinburgh had for some time refused to bind an apprentice until he had passed this examination. Mr. Gostling considered the examination not at all too severe. Mr. Churchill knew the feeling as to the difficulty of obtaining apprentices existed, and thought the alleged severity of the examination ought to be considered. On the suggestion of Mr. Schacht, however, it was resolved to write to the Glasgow Council, showing them the statistics as stated by the secretary. He considered the memorial had been written under a misapprehension.

A letter from the Privy Council was read, stating that the proposal to pluce chloral hydrate and its preparations on the poison schedule was still under consideration.

On a proposal by the Finance Committee to invest 2,000l. in 3 per ceuts., Mr. Sandford moved that 500l. should be transferred to the Benevolent Fund. The president considered, however, that the society ought to save money with a view of some day securing a freehold home for itself, and Mr. Bottle opposed Mr. Sandford's proposition on the ground that such a grant would be likely to check subscriptions. Mr. Sandford withdrew his mution for the present.

The Council afterwards considered in committee the question now pending between the Society of Apothecaries and chemists and druggists respecting counter practice, and after some dis-

cussion it was adjourned to a future meeting.

THE PHARMACEUTICAL SOCIETY AND PROVINCIAL EDUCATION.

A paper read before the Glasgow Chemists' and Druggists' Association, by Mr. J. M. Fairlie, vice president, on December 12, 1877, Mr. D. Frazer, president, in the chair.

MR. Chairman and Gentlemen,—It seems to me that the ques-tion of provincial education, having now been in abeyance for a few yours, should be brought to the front and dealt with in a statesmanlike manner by the council of the Pharmaceutical Society, and as our osteumed chairman has requested mu to read to you a paper in liuu of his inaugural address, I have thought I could not take up a better topic. It will be necessary that we should take a brief glanco at the past in order that we

can realise our present position and make our calculations for the future. First, then, the Pharmaceutical Society in its original programme had the education of its apprentices or students as one of its chief objects, and to that ond a School of Pharmacy has been in existence for many years, and no one denies but that through its able professors it has done good servicu to the cause of pharmaceutical education. Somo say that it has been at too great expense that it has been kept up, but I am disposed to think that all the money that has been spent upon it has been well spent, and I believe that if the same amount was spent again, in a similar direction, far more good would result in the future than has been done in the past. am aware that some of our leading pharmacists held the view that the time has almost come when the society should cease to have any control over the education of the students at all, and they look upon it as an anomaly that the society should both be a teaching and an examining body. I hold that this view should not be entertained for a single moment in present circumstances. If such a step is taken, it will be to my mind a rutrograde one and opposed to the principles adopted and carried out by most other bedies having duties and responsibilities placed upon them of a nature similar to those of the Pharmaceutical Society, aye, even and carried out by the Government itself; for what is our present system of national education? Is it not controlled by the State? Are the teachers and taught alike not examined and inspected by the State? Yes, and the State also pays a large share of the expense! Why, then, should there be an outery against the society exercising somo control over this important matter? I suppose it is almost wholly on the ground of expense. This, I think, is short-sighted policy. Some people do not know how to spend a shilling that they may receive eighteenpence. Others, again spend eightconpence, and scarcely receive a shilling's worth of value in return. Looking at the past of the Pharmaceutical Society, I am not disposed to criticise too severely the conduct of the old leaders at Bloomsbury Square, many of whom are now lying in honoured graves; and I do not know that had I been placed in the same circumstances I would have acted otherwise than they did; but standing as we are now on a higher platform, we can survey the past from a different standpoint, and while I give all honour to the Bells and the Allens, the Hanburys and the Morsons for their lifelong efforts in the advancement of pharmacy, yet I cannot but think that had all the time and money and effort that was put forth year after year in endeavouring to obtain an Act of Parliament, been spent in spreading useful knowledge amongst chemists in the country districts, and by establishing in all the large centres schools of Pharmacy on the model of that at Bloomsbury, much more good would have resulted. Thero would, I am sure, have been less jealousy and distrust amongst the different sections of the trade, and a better Act of Parliament would have been obtained, when not only the trade but tho country would have been ripe for the kind of legislation necessary. But there is no use looking at the past unless to conscrvo these good and useful legacies that have been handed down to us by our predecessors, and to improve upon that which we are convinced needs improving. And I look upon the School of Pharmacy at Bloomsbury Square, and its scheme of education as conducted there, as one of the most important of those legacies. But it is well known that all students cannot reach London to obtain the necessary tuition, and at present it is impossible, evea in our own city, with all our educational advantages, for any young man to receive the systematic course of training necessary to equip him properly for the work he should pursuu in after years in connection with his business. I have already hinted that I think that ie the past the provinces have been neglected by the authorities in councetion with our society at London. I am awaro that a scheme exists whereby local associations may ohtain grants of money and loars of books and apparatus under certain conditions and restrictions, but I am disposed to think that the restrictions are either too severe, or the grants that have been given have been so paltry on the whole, and given with such a grudging hand, that local committees think twice before they make any application at all. The members of council of late have thought they had nothing to do in this matter but promulgate a scheme, and let it work itself; they passed, so to speak, a permissive bill, but they hended it round with so many whys and whorefores that it has practically bocome a dead letter. What would the people have said if our Government, when they passed the Education Bill, had they left out the provision for the appointment of School Boards in

the various parishes and burghs throughout the country? Would education have been any further advanced to-day? I am sure not, and this is just what our council did a few years ago. They, in effect, said, "we will lay aside a moderate sum for provincial educational purposes, for we acknowledge that we must do something in this matter. We obtain a good deal of money from provincial members of the society, and we must keep them on and get others to join, to send up their guineas also; and although we send them seventeen shillings' worth of journals every year, yet we get a profit, and we cannot keep it all in London. But we know our country cousine woll enough; they are very slow to move, very conservative, so we will not make this money too easy to get at, for they may, after all, make a bad use of it, and it is far better that we should buy a few more 3 per Cents. than that it should be sent to Birmiugham, or Leeds, or Glaegow to be squandered thore, when we would never see it more." This, though a little strained, is practically what they said and have carried out. No local committee would be troubled in tho way that is laid down in the scheme. What is required is some simple plan, something that we have hecu accustomed to in other departments of life, not a new-fangled, intricate scheme, that will take a man half a lifetime to master. It seems to me that there are many plans that should commend themselves to us for thoir very simplicity. When the hero of the Scottish Reformation accomplished his purpose by overthrowing the tyrant power which tried to crush the Scottish people, he did not attempt to dazzle the inhahitants by promulgating some perplexing scheme for keeping down the old powers, and improving the habits of the people, but he adopted the very simplest plan he could, and in doing so he carried the people with him. He established a school in every parish alongside of the church, and for 300 years Scotland has stood a monument of John Knox's eagacity and forethought. The plan I would propose is perhaps not new. Something like it has certainly been suggested by some one, but if simplicity is a recommendation I think it possesses that element :-- First, let the country be divided into, eay, 12 dietricts; second, let the members of the society in each district elect, every three years, an Education Board; third, let the council, at the commencement of each year, set apart a certain sum of money for aids to education, say 600l. the first year, thus giving a grant of 50l. to each of the 12 districts, which ought to be supplemented by at least an equal sum subscribed locally. By this means the Education Board would be able to secure two lecturers who would willingly accept the fees obtainable from the classee set agoing, and the bonus of 50l. each might go in providing either room accommodation, apparatus, or some other necessary matters that would occur to the Board. This plan, I think, has several points in its favour. The issuing of the ballot papers every three years would add an interest on the part of the members of the society which they could not otherwise take in this matter. The Board, once elected, would require to do something in the furtherance of education, or of course the grant would not be paid. The fact of classes existing in a district regularly from year to year, and not in the spasmodic way in which some local associations find it necessary to carry them on at present, would become known to all young men withiu each radius who would naturally strive to attend one or two sessions. The objection of course would come in, where is the 600% to come from? So far as I can calculate of the income and expenditure during the past few years I think the society might well afford 600l. or 7001. annually for educational purposes, apart from its endowments at Bioomsbury Square. If we take Scotland alone, as an example, two districts in addition to the N.B. branch might unswer for the present. We find that during the past year the Scotch Examining Board made a clear profit of 100%, to the society, apart, no doubt, from those who would become annual subscribers as members afterwards. we, in Scotland, would be but receiving back for educational purpose the excess of income on the examinations, which I hold to be but fair and just, as I do not think the society should make a single penny of profit out of the hard-carned fees that are paid by the students who present themselves for examination. I am not aware whether the English Examining Board is as profitable to the society as the Scotch one. I should fancy it ought to be much more so, as a larger number of students must present themselves at London in proportion. The moncy difficulty might come in, however, npart from this; but there scems to me to be other ways and means of raising the necessary sum, for as the old saying has it: "Where there's a will there's a way." I would like, for instance, to know whether

it is absolutely necessary that all members and Associates, eubscribing on an average, I presume, about 15s. per head per annum to the society, should receive 17s. 4d. worth of journals every year in return. It seems to me that the society pays heavily for this practically gratis distribution of the journal. If it was put upou an independent basis, I am strongly of opinion that it would, in the first place, pay better than it does even at present; and in the next, I am certain its editorials and leaders would more fairly represent the opinion of the majority of the trade, and have more independence about them, while its articles generally would be more in keeping with the stage of progress attained by the great bulk of its readers. We need the journal; we must have at least one highly scientific publication, and no doubt we would get one or more whether it was continued to be sent out by the society to its members or not, and the trade would willingly pay for it or any other journal, and I do not see why the society should care to monopolise this particular department. I therefore think that if it is necessary to make any sacrifice for the sake of the funds of the society, that the education of our youths should not be neglected or left to itself, but that if a "Jonah" must be thrown overboard, let the Journal go to fight its own battle with other enterprises of a similar character. This, no doubt, will sound in the ears of come of our friende as a terrible proposal. I think I hear them say, "We can't do without our official organ; we must have some means of reporting our council meetings, and we can only allow our own trusted editor and reporter to sit at our side, for it does not do to let the whole world know all that is going on inside." What would the country say if the Houses of Parliament and our town councils were to close their doors against the representatives of the Press, and only permit a trusted servant to provide the reports to the nation. It would not be tolerated a single day, and why the members of the Pharmaceutical Society have submitted to this indignity so long is more than I can understand! There is another common objection often raised against the adoption of a thorough scheme of provincial education, namely, that of the smaller towns. If, say, a grant of 50l. was made to Glasgow, why chould the pharmacists in Greenock or Perth not also establish a little school and get a share of the grant? Looking at the question as a matter of common fairness, one naturally would say, "They are entitled to it, and if they can get up a school, let them elect a board and give them a share of the grant." But I have no great fears of the smaller towns interfering with the grant in thie way. Throughout the country there are certain recognised centres, just as London is looked upon as the leading city in the empire. There are always inducements to young men to go from the smaller towns to the larger and moro attractive ones, and while a system of teaching would be an additional attraction to the larger towns, I do not think it would militate one iota against the interest of the pharmacists in those outlying towns. I rather think that the advantages are all the other way; each district would be placed upon an equal footing. They would elect their own board, which would superintend the arrangements in its own way. The Pharmaccutical Society could have a check upon the board by having the power to place the local secretary ex officio a member of tho board, at the same time a gnarantee would be required to be given by the board that the grant should only be used for educational Thus the Pharmaceutical Society having laid the foundation, and placed the edifice of provincial education on a fair basis, it might rest on its oars in that department and watch results for a time with perfect safety, but only, I should say, for a time, for a higher power may step in and rearrange matters. And I fondly look forward to the time when uo youth shall be apprenticed until he has passed his "Preliminary amination, when the "Minor" examination shall be the teet for assistantships alone, and the "Major" the only portal by which a pharmacist chall be able to commence business on hie own account. Then our young men shall be looking for their education within the walls of some of our local universities and ecience colleges, and by that time, I trust, that in each of these halle of learning a chair of pharmacy may be established and endowed, partially by the Government, partially by the Pharmacontical Society, and partially by local effort.

And now in conclusion, let us look at our own position as a local association. Are we prepared to enter upon some such plan as I have here sketched out? We are certainly more peculiarly situated here than in any other district, and there is the more necessity for something being done, and that quickly. Our

spasmodic efforts have been quite as successful as might be expected in the circumstances, but we have had no system, and where there is no system there is not that thoroughness without which our efforts are practically worthless. I know from my intercourso with the young men that they are anxious for something being done. I know also that there are teachers in the City able and willing to give their services if the smallest encouragement, such as a grant from London would give, were forthcoming; and I believe, further, that the employers have but to be appealed to to give what assistance is needed in furtherance of such a schome. I do not see why in a city like Glasgow at least 100l. should not be subscribed annually for the upkeep of a set of classes in conjunction with a library aad museum. I know what our young men can do when they make up their minds. But for them no library, I believe, would yet have been in existence in connection with our association. But for them the business hours would have been kept stretched out much longer than they are. And I am convinced that in this matter they have it pretty much in their own hands also; and as it is the young men who will mainly benefit by such a reform, I would say let them keep steadily in view the ideas associated with three words, namely, Educate! Unite! Progress!

Probincial Reports.

COVENTRY.

An association of chemists and druggists has been formed at Coventry, under the title of the Coventry and Warwickshire Pharmaceutical Association. The first president of the association is Mr. Councillor Wyley, and the honorary secretary Mr. Frederick Barrett.

DOVER CHEMISTS' ASSOCIATION.

THE annual meeting of this association was held at the Apollonian Hall, on Nov. 14. The balance sheet was presented and passed, and an opinion was expressed by the chairman and others that the working of the association, especially with regard to the maintenance of uniform prices, had been satisfactory and beneficial. Mcssrs. W. H. Cotterell and J. F. Brown were reappointed as chairman and secretary, respectively, for the forthcoming year. After the business had been dispatched, the members present sat down to an excellent supper.

In proposing the health of the Mayor and Corporation, coupled with the name of Alderman Bottle, the secretary remarked that whatever success had been attained by their association was very largely due to that gentleman's kind advice and assistance, which he had always placed at their disposal. Other toasts

were drunk, and a very pleasant evening was spent.

EDINBURGH CHEMISTS' ASSISTANTS' SUPPER.

THE chemists' assistants of Edinburgh held a supper (which they propose shall be annual) on the evening of Thursday, the 6th inst., in the Windser Hotel, Princes Street. Covers were laid for upwards of 100. Mr. John Young (Messrs. Macfarlan & Co.) occupied the chair, and was supported by Dr. Taylor, Dr. Aitchison and Dr. Linton. Messrs. Taylor & Simpson, a deputation from the Glasgow Chemists' Assistants' Association, and Mr. James Johnstone Taylor, Messrs. Cairneross & Welsh acted as croupiers. After supper the chairman gave the usual loyal and patriotic toasts which were enthusiastically responded to, that of the "Army, Navy, and Volunteers," being acknow-ledged by Captain Watson. In proposing "Success to our Annual Gathering," the chairman referred to an attempt to inaugurate an annual social meeting, such as the present, mado in 1873, but the movement at thut time fell through. Ou the present occasion, however, all this was changed; the proliminary meeting was so enthusiastic and the call so cordially responded to that had it not been that arrangements for the present room had been made and the accommodation thus limited, double tho number of tickets might have been sold. In alluding to the present condition of the Chemists' Assistants of Edinburgh, he

stated that as a body they were not only far hehind those of London and the larger provincial English towns, but also those of Glasgow und the West of Scotland. He hoped that now they would "gird up their loins and put their armour on," and waking out of their lethargy organise a permanent association, which he trusted would, by bringing them into contact, make them a more united body. Before concluding he welcomed the deputation from Glasgow, and acknowledged the kind support given by the medical gentlemen present.

Mr. Welsh proposed the "University and Royal College of

Physicians and Surgeons."

Dr. Taylor in replying said that an overworked doctor was the worst speech maker; he had no command of language, his usual vocabulary consisted of about 40 words. His favourite phrases were something like "What do you complain of?" "How long have you been ill?" and so on, all day and every day repeating the same list. Again, it had been said that the less a doctor said the more he was thought of; this made him taciturn, he therefore apologised for any disappointment his speech might cause. He would like to ask the chairman to explain how he considered the Edinburgh assistants were so much behind others. He had always thought that the Edinburgh chemists and their assistants were unequalled for intelligence and accuracy in this country and in the world, and whatever it might be elsewhere he knew that in this city a physician writes a prescription with the faith that his instructions will he carried out to the letter, and if it should happen that he makes a slip, a nice polite young man calls to point out the error and get it rectified, and meantime the customer is told that the prescription will take some time to make up. He concluded in referring to the University by wishing peace and prosperity within her walls, and expressed a hope that her present prestige would not be lost, but that she shall go on and flourish continually.

Dr. Aitchison, in acknowledging the toast on behalf of the Royal College of Physicians and Surgeons, said that he represented what in England was looked upon as a persou who did not exist, namely, a Scotchman who had lived in England and had found his way back to Scotland again, and so, having some experience of English practice, he would like to say a word on that subject. The general practice in England, at least in the provinces, was that every doctor should be his own druggist. He while there kept his own drugs, and might say so without much shame. He did his own dispensing, but he owned that he did it badly. In the town in which he was located there were thirteeu practitioners; the leading man was a gold medalist of the Loudon University, a B.A. and M.D., and had been a member of parliament, and this doctor also sold his own drugs. From his (Dr. Aitchison's) experience of the system, he must say that it was thoroughly bad, both for the doctor and for the general public, and he was very pleased to find that this practice did not prevail in Edinburgh. It is a retrograde movement. At the same time he must say that the Edinburgh chemists got as much for their medicine alone as did the English prescribing druggist with his advice, or, for that part, as much as the

doctors in most cases got for the same.

Mr. William Inglis Clark (Messrs. Duncan, Flockhart & Co.) in proposing the North British Branch of the Pharmaceutical Society, said he could not speak of the founders except so far as he had been made familiar with them from books or from hearsay. Among those founders was the late Mr. Duncan, to whom they had owed much. He had revolutionised the practice of dispensing. At the time when Mr. Duncan went to the business ointments were sent out in mussel shells, and pills and powders in odd scraps of paper. He inaugurated a new system, and though by many it was considered a daugerous experiment, yet the experiment turned out a success, and showed the master mind. This was not Mr. Duncan's only improvement. Among his formulæ should be mentioned that for citriue ointment, which was retained in the present Pharmacopæia. Among founders and contemporaries of Mr. Duncan he would mention Mr. Robertson, George Street, and the late Mr. Flockhart. The year 1843 witnessed the formation of the North British Branch. At that time and since Mr. John Mackay has spared neither time nor trouble in organising the chemists into a harmonious and influential body.

Mr. Robert Stenhouse acknowledged the toast. Mr. Cairneross proposed the "Glasgow Chemists' Assistants' Association," to which Mr. Simpson replied.

The meeting was of the most harmonious description, and broke up ubout 2 A.M.

GLASGOW CHEMISTS' AND DRUGGISTS' ASSOCIATION.

THE opening meeting of the winter eession was held in the Mnuager's Library, Andersonian College, on December 9, Mr. Daniel Frazer, the president, in the chair. The minutes of the previous meeting were read. Mr. John Walker was appointed secretary, and Mr. Wm. Mackenzie librarian, vice Messre. J. L. MacMillan and Jas. Murdoch, resigned. A donation of books from the Pharmaceutical Conference was acknowledged with thauks. The President made some remarks which resulted in a resolution "that the Council of the Association should consider the desirability of approaching the Council of the Pharmacentical Society with reference to the preliminary examinations." The general idea was that the exnmination was so hard as to make it exceedingly difficult to obtain apprentices.

Dr. J. M. Milne, lecturer on chemistry, read a paper entitled, "Some notes on the application of chemical knowledge." He traced the growth of chemistry and the advance of its practical applications to the arts and manufactures. He insisted on the great value of a knowledge of practical chemistry to the chemist and druggist, and in conclusion discussed the Adulteration Acts. A vote of thanks to the lecturer closed the proceedings. The following classes were announced for the

Tutorial class for the preliminary examination, conducted by Mr. A. Fairlie, and meeting on Monday and Friday evenings at 8.30 P.M. Fee, 10s. 6d. per session.

Theoretical chemistry class, conducted by Dr. Milne, meeting on Tuesday at 8.30. Fee, 5s.

Practical pharmaceutical chemistry class. Fee, 21s. The second meeting was held on the 12th inst., when a paper was read by Mr. J. M. Fairlie, 'On Provincial Pharmaceutical Education," which we print elsewhere in this number.

Assistants' Section.

The opening meeting of the session was held on November 14 at Anderson's College, Mr. Peter Boa, president, in the chair. The minntes of the previous meeting were read and confirmed. Mr. Walter Paris was elected secretary in place of Mr. J. S. Whyte, who had left Glasgow.

Mr. Boa read a paper on "Salicylic acid," in which he mentioned that powdered tragacanth answered well for suspending the acid in water. Pills of salicylic acid could be made up with tragacanth and glycerine, taking care to avoid excess

Mr. Taylor moved a vote of thanks to Mr. Boa, which was

cordially responded to.

Mr. W. Simpson, convener of the early closing committee, reported that the efforts of the committee to obtain a reduction of Sunday hours bad been only partially successful.

Mr. Boa tendered his resignation of the office of president,

as he was leaving the city. A few members were elected.

The next meeting will be held on December 19, when Mr. W. Paris will read a paper on "Phosphorus."

MIDLAND COUNTIES CHEMISTS' ASSOCIATION.

THE quarterly meeting of thie association was held on Friday, Nov. 16, at Burlington Chambers, Burlington Arende, New Street; the president, Mr. W. Jones, in the chair. There was a good attendance of members and associates. The secretary was called upon to read the quarterly resume of pharmaceutical news. Some discussion ensued and doubts were expressed whether Spt. Æther. Nit. of B.P. strength must always be sold for sweet nitre; the question was, however, decided in the

The president then called upon Mr. H. W. Jones for his paper

Some Remedies Recently Introduced.

The following remedies among others were referred to.

Acid. Hydrobrom. Dil.—This was stated to be a somewhat unsatisfactory preparation when made according to the original formula of Dr. Wade, as it invariably deposits on keeping. A better process was that of C. Rice, which had appeared in "New Remedies,' in which alcohol was added in order to precipitate more completely the acid tartrato of potash, the alcohol being afterwards removed by distillation, and the acid brought to the s.g. of 1 075 containing 10 per cent. of HBr. The sample ex-

bibited had been made from recently distilled neid prepared by the action of bromine on phosphorus, the portion being used that distilled over nearly colourless. It was remarked that a perfectly colourless acid could be easily prepared from the distilled acid, and when the strong acid had become discoloured it could be decolourised by a little sulphuretted hydrogen; hent would then remove excess of gas, and filtration the deposited

Liq. Ferri Dialysatus.—The sample shown had been made from 300 parts of liq. ferri perchlor, and 100 parts of liq. ammonia, of s.g. 92, as proposed by Dragendorff. Highly basic chlorides of iron had been prepared previoue to 1861, when Grahnm obtained a solution containing ninety-five molecules of oxide to one molecule of chloride; a colution containing the oxide in this propertion, as that experimentalist had shown, would not keep, so that for pharmaceutical purposes a decided though relatively small amount of chleride would have to be present. This, however, should not be looked upon as an excuse for using a bnd preparation, or such a colution as would, without the iron being first precipitated, show the presence of n chloride with a solution of silver.

Salicylic Acid .-- Although classed among the less recently introduced articles, was noticed from its important uses in medicine. The three kinds were shown; the precipitated acid, the crystaline, and the chemically pure acid obtained by dynlisis.

Guarana. - Specimens were sbown in the roll and in the powder. A number of specimens had been examined by the epeaker, but none found adulterated. In one case n number of minute metallic fragments were visible by means of a lens, which, on examination, proved to be metallic lead; the total amount was small, and its presence seemed to be accidental, and not added with a view to adulterate. The sample was in fine powder and not in rolls as usually imported.

Monobromated Camphor was then exhibited, and the mode of manufacture explained; the diepensing difficulty was also referred to. The speaker thought that an Emulsion Syrup could be prepared by disselving the camphor compound in epirit, precipitating by water, collecting the finely divided monobromide and mixing it with cold syrup. By this means a sort of emulsion could be made, and although it separated, the camphor compound floating to the surface, still it could be readily diffused again by

In treating of Chrysophanic Acid it was said that while the method of heating was to be greatly preferred to the use of beuzine in making an ointment, yet a smooth ointment was not obtained by dissolving the acid in the hot fat, but by rubbing down after cooling a satisfactory preparation resulted.

Nitrate of bismutb and its glycerole and a few other prepara-

tions, brought the paper to a close.

Mr. Dewson then explained a simple and ready method by which the absence of nlum as an adulterant of cream of tartar, could be ascertained. He said that since alum, if present as an adulterant, is always found in considerable quantity, it could be detected by the simple process of ngitating forty graine of the cream of tartar with siij., of cold distilled water, filtoring off the fluid and evaporating it to dryness. In consequence of the epnring solubility of the acid tartrate, the dry residue would weigh less than one grain if the cream of tartar be free from this adulterant, but much mere * if it were present; thus, if the residuc weigh less than one grain, the absence of soluble salts as adulternnts, may be inferred, though they may be present in emall quantities as impurities

A vote of thanks to Mr. H. W. Jones for his interesting paper brought the meeting to a close.

A soirée in connection with this association is to be held in the Town Hall, Birmingham, Jnnuary 23, 1878. There well be eeveral attractive features. Messrs. Cleaver & Sons, of Lendon, will manufacture fancy toilet seap by a new process. The machinery used will be driven by a gns engine. The snme firm will also exhibit the filling and closing of collapsible tubes of perfume. The Royal Porcelain Company, Worcester, will practically illustrate the manufacture of china; several of their workpoople will be engaged. Several chemical and pharmaceutical processes will be conducted. The telephone will be exhibited in the hall, and a great number of novelties, &c., will be shown. There will be an organ recital, and a string band will perform at 10 o'clock, when dancing will commence.

^{*} This residue of course being examined for alumina,

NOTTINGHAM AND NOTTS CHEMISTS' ASSOCIATION.

On Thursday, November 29, was held a very snecessful meeting of this association, the president, J. H. Atherton, F.C.S., in the chair. The minutes of the preceding meeting were read.

Donatious of 5l. from Mr. Edward Harvey, of London, and of Hanbury's "Science Papers" and "Pharmacographia" from Mr. T. Hanbury, were announced. A vote of thanks was ac-

corded to both these gentlemen.

The president then gave a telling address, impressing his hearers that not only money but personal support was necessary to maintain the association in an efficient condition. The question, Shall the association continue? was then put to the meeting, and answered unanimously in the affirmative. Messrs. James Beardsley, C. W. Dixon, Bolton, Warriner, and others, spoke strongly in favour of the association. Messrs. James Beardsley and R. and W. Widdowson, three former students, offered to assume the post of teachers, and warmly acknowledged the henefits they bad received from the association.

A vote of thanks to the president, proposed by Mr. Inger and seconded by Mr. Moore, brought the proceedings to a close.

PHARMACEUTICAL SOCIETY OF IRELAND.

THE monthly meeting of the above society was held at the College of Physicians, Kildare Street, on Wednesday, December 5, Sir D. J. Corrigan, president, in the chair. The following were present: - Dr. A. Smith, vice president; Mr. Wm. Allen, Mr. J. G. Buleau, Dr. Collins, Dr. Frazer, Mr. J. Goodwin, Mr. Wm. Hayes, Mr. E. M. Hodgson, Mr. J. T. Holmes, Mr. S. Oldham, Mr. Payne (Belfast), Dr. Ryan, and Professor Tichborne.

A communication was read from Mr. Taylor, acting clerk to the Privy Council, Dublin Castle, stating that certain byelaws passed by the council had been approved, and appeared in

the Dublin Gazette.

Several letters were read from correspondents who had failed at the examinations and from others, asking for some relaxation of the regulations. In all cases the registrar was instructed to

reply, stating that their requests could not be complied with.

On the motion of Mr. Payne, a committee was formed for the purpose of reporting to the council if it should be desirable to have any of the resolutions of the council inserted in the ealendar of the society.

The following notice of motion by the president appeared on

the summons of meeting:-

"To consider the expediency of issuing a notice, by public advertisement or otherwise, with this purport, or as follows:-

'I am directed by the President and Council of the Pharmaceutical Society of Ireland to draw attention to the Pharmacy Act (Ireland, 1875), which was enacted in that year to protect the public from the dangers that would accrue from incompetent or ignorant persons compounding medical prescriptions, and which enacts that persons not duly qualified to compound medical prescriptions are liable to a penalty of 5l. for each offence.

'The President and Council of the Pharmacentical Society, impressed with the importance of carrying out this law for the safety of the public, desire to make it generally known, that all persons who might otherwise plead ignorance of the law may be aware of the provision of the Pharmacy Act (Ireland, 1875), which enacts as follows, in Clause 30:—That it shall be unlawful for any person to keep open shop for retailing, dispensing, or compounding medical prescriptions, unless he be registered as a pharmaceutical chemist, or otherwise duly qualified; and if not so qualified shall "for every such offence be liable to pay a penalty of five pounds;" and Clause 36 provides that "every penalty recoverable under the provisions of this Act shall be recoverable in a summary way with respect to the police districts of Dublin Metropolis, and with respect to other parts of Iroland before a justice or justices of the peace sitting in petty sessions," &c., &c.'

Mr. Holmes said he had no amendment to propose-viz., that in any advertisement issued by the council the whole of Clause 30 of the Act should be inserted, and pointed out in the president's notice of motion what he considered important discrepnneies between it and the clause whereof it appeared to be an epitome. The words "sell or" were omitted before the words "keep open shop for," and the words "medical prescriptions"

were inserted after "compounding" instead of the word "poisons." The amendment was seconded by Mr. S. Oldham. After considerable discussion the vote of the council was taken, and the motion suggested by the president, with some unimpor-tunt modifications, was carried by a largo majority. The following was elected to membership:—William F. Wells, jnn., Upper Sackville Street, Dublin.

CHEMISTS' AND DRUGGISTS' ASSOCIATION OF IRELAND.

Ar a meeting of the Chemists' and Druggists' Association held on Monday evening, November 19, it was resolved, as the objects of the society had been accomplished, to dissolve the association.

It was also unanimously resolved that a committee be appointed to consider the best means of expressing the thanks of the association to Mr. Hayes, the hon. secretary, who, during the whole of the society's existence, had so efficiently earried out the duties of the office.



THE COUNTER-PRESCRIBING CASE.

(Special Report.)

At sittings in Banco, n the Court of Exchequer, at West? minster Hatt, on November 20, 1877, before the Lord Chief Baron (Sir Fitzroy Keny) and Mr. Baron Cleasby, the case of George Shepperley, appellant v. The Master, Wardens and Society of the Art and Master, of Arthuring Chief. Society of the Art and Mystery of Apothecaries of the City of London, respondents, was heard.

This matter, which relates to the question of counter-prescribing, came before the court on appeal from a decision of the judge of the Nottingham County Court, by which the appellant had been mulcted in penalties for having infringed the provi-

sions of the 55 Geo. III., cap. 194, sec. 20.

The nature of the action and the circumstances attending it will be apparent from the arguments of counsel in the case.

Sir Henry James, Q.C., Mr. Buszard, Q.C., and Mr. Clement Higgins appeared for the appellant. The respondents were represented by Mr. Day, Q.C., and Mr. Stangie. Sir Henry James: My lords, this is a special case stated

by a learned County Court Judge. It raises a question of considerable practical importance as to how far any person practising or carrying on the business of a chemist and druggist may exercise a discretion when selling medicines across the counter to his customers. That is the main point to be deter-

THE LORD CHIEF BARON: For whom do you appear? SIR HENRY JAMES: I appear for the appellant.
THE LORD CHIEF BARON: Who is the appellant? Is he con-

victod?

SIR HENRY JAMES: Yes, he was convicted, and penalties were inflicted under the Act of Geo. III., but the learned Judge of the County Court felt that it was n ease for the determination of a superior court, and has therefore stated a special case, upon which the appeal now comes before your lordships.

My lords, to direct attention to what is the matter for your determination, I will say generally that the question is how far a chemist and druggist, who, in the course of his dealings across the counter, sells certain drugs or wares in the conduct of his business, and who to a certain extent in the selling of those drugs and wares exercises a discretion as to the articles ho sells. practises as an apothecary so as to bring him within the penal clauses of the Act of Gco. III.

The case, my lords, is stated as follows:-"This action was brought by the Master, Wardens, and Society of the Art and Mystery of Apothocaries of the City of London against the appellant, the defendant, who is a chemist and druggist, carrying on business at Nottingham, within the jurisdiction of tho

Nottingham County Court, to recover from him the snm of 201., under and by virtue of the 55 Geo. III., cap 194, sec. 20, for that be, not being a person who, on the first day of August, 1815, was actually practising as an apothecary, did, on August 22, 1876, and on divers days within six months next before the commencement of this action, act and practise as an apothecary, in the town and county of Nottingbam, by then and there, as such apothecary, attending, and advising, and turnishing, and supplying medicines to Thomas Jolly Death, one Daniel Huhbard, and divers other persons, without having obtained such certificate as hy the said Act directed, contrary to the form of the statute in such case made and provided. Upon the evidence set forth in my notes hereunto annexed, I find that in one instance the defendant in his shop heard a patient state his complaint, examined him medically, and supplied the said patient with medicine of his (the said defendant's) own prescription, and in another instance supplied medicine to a patient for an cruption on his face. The question for the Court is whether these facts brought the defendant within the provisions of 55 Geo. III., cap. 194, and made him liable to the penalty therein provided and sought to be recovered in this action." Although, my lords, these findings are in the terms mentioned, your lordships will find that the learned Judge leaves it to the court to determine whether or not those facts which are mentioned in his note brought the defendant within the Act of Geo. III. The notes are rather long because they refer to some cases as to which the learned Judge found in favour of the defendant. But the only cases in which the determination of the Judge is in favour of the Apothecaries' Company are those in which the evidence has relation to two persons named Thomas Jolly Death and Daniel Huhhard. Those are the two cases to which he refers. The evidence as to Mr. Jolly Death's case your lordships will find on page 3.

The Lord Chief Baron: Then you pass by George Shepperley's evidence?

SIR HENNY JAMES: I do. THE LORD CHIEF BARON: That is not one of the two cases. SIR HENNY JAMES: No, my lord. Shepperley is the defen-I shall have to refer to his evidence; but the affirmative evidence, which I shall have to mention to your lordships, had better commence with the persons who are referred to by the learned County Court Judge. The evidence of Thomas Jolly Death commences on page 3, where be says, "On Angust 22 I went to defendant's shop. I saw him behind the general counter. I said, 'I want some medicine for sore throat, cold, tightness of chest.' Defendant came between the two counters and told me to face the light and open my throat. He looked down my throat. He said, 'A tightness there,' touching my chest. He said, 'I think I can give you something to re-lieve you: I don't think there is much amiss with you.' He gave me a bottle of medicine, to he taken internally, and I paid him 1s. I said, 'How much?' and he said, 'One shilling, please. I think you will find relief from that; if not, come again. I did not specify the medicine I required." The rest of his evidence specifies what took place after the action was brought. Mr. Shepperley himself says as to Death's case, "I believe Death called and asked me look at his throat. If he asked me, I should. I believe I gave him medicine. I do not think he brought a prescription. I do not recollect what I charged him. I have several times refused to prescribe." Then, my lords, as to Huhhard's case, the only evidence is that of Mr. Shepperley himself, and he says, "I helieve I saw Daniel Huhbard in my shop. He asked for something for some pimples he had on his face. saw that he had pimples. I did not examine him at all. have a dispensing counter, which has a screen in front of it. I did not take him hehind the screen. I do not think he went there. I think I gave him some medicine. This (hottle put in) is my writing on it."

THE LOND CHIEF BANON: Is that a bottle which came from

this man?

Sir Henry James: I presume so; it looks like it.
Mn. Banon Cleasuy: Did the County Court Judge decide this case at all?

SIR HENRY JAMES: Yes. Leaving it for your lordships' further judgment, he found that this case was a case coming within the 20th section of the Act of Geo. III.

THE LORD CHIEF BARON: He puts it as a mere question to the court, and as if it were a special case, merely asking for an answer to a question, but without having himself come to any decision. However, you say he did decide to convict?

Sin Henry James: Certainly, my lords, pro formâ he decided

to convict, leaving it to your lordships to say whether, if you had been in his position, you would say the appellant had done that which would bring him within the provisions of the 20th section of 55 Geo. III.

My lords, I will refer you first to the Act, and then I will refer to the position of an apothecary, in order to see whether this is an act of prescribing as an aputhecary. My lords, the Act under which these proceedings are taken is the Act which really first recognised the status of an apothecary in this country. It is the Act of 1815, the 55 Geo. III., cap. 194. My lords, that Act first recites the original charter of James I., under which the apothecaries were incorporated. Probably at that time, I mean the time of James I., the principal object of that incorporation was to give power to certain persons to search in shops or warehouses, where drugs were sold, so as to see that no spurious articles were sold. The status of apothecaries, at that time, was scarcely recognised other than as vendors or sellers of drngs. I think I can show your lordships how apothecaries became of much more importance than they formerly were, and how this Act, and the operation of that legislation, became a portion of that recognition which has placed them in their present position The first section of that Act recites the charter of James I. Then it repeals that charter to a certain extent, and the first material section upon this matter is the 5th section. That section says :- "And whereas it is the duty of every person using or exercising the art and mystery of an apothecary to prepare with exactness and to dispense such medicines as may be directed for the sick by any physician lawfully licensed to practise physic by the President and Commonalty of the Faculty of Physic in London, or by either of the two Universities of Oxford or Cambridge; therefore, for the further protection, security and henefit of His Majesty's subjects, and for the better regulation of the practice of physic throughout England and Wales, he it enacted, that if any person using or exercising the art and mystery of an apothecary, shall at any time knowingly, wilfully and contumacionsly refuse to make, mix, compound, prepare, give, apply or administer, or any way to sell, set on sale, put forth, or put to sale to any person or persons whatever, any medicines, compound medicines, or medicinable compositions, or shall deliherately or negligently, falsely, unfaithfully, fraudulently, or unduly make, mix, compound, prepare, give, apply or administer, or any way sell, set on sale, put forth, or put to sale to any person or persons whatever, any medicines, compound medicines, or medicinable compositions as directed by any prescription, order, or recoipt, sigued with the initials, in his own hand-writing, of any physician so lawfully licensed to practise physic, such person or persons so offending shall, upon complaint made within 21 days by such physician, and npon conviction of such offence before any of His Majesty's justices of the peace, unless such offender can show some satisfactory reason, excuse, or justification in this hebalf, forfeit, for the first offence, the sum of 51.; for the second offence, the sum of 10l.; and for the third offence he shall forfeit his certificate, and he incapable of using or exercising the art and mystery of an apothecary, and be liable to the penalty inflicted by this Act upon all who practise as such without a certificate, in the same manner as if such party so convicted had never been furnished with a certificate enabling him to practise as an apothecary, and such offender so deprived of his certificate shall be rendered and deemed incapible in future of receiving and holding any fresh certificate unless the said party so applying for a renewal of his certificate shall faithfully promise and undertake, and give good and sufficient security, that be will not in future be guilty of the like offence." My lords, the only material part there is that this was dealing with that which was and could only at this time have been one portion of an apothecary's duty, namely, that of making ap prescriptions—of compounding those prescriptions and of selling them when made up; that is to say, the making up the prescription, and the selling the medicine when so mixed up. The art or mystery could not be confined to that, because at this time chemists and druggists were, equally with apotheearies, making and selling drugs and making up prescriptions of physicians.

Now, my lords, the next section which is of importance is 14th. This deals with the practice of apothecaries, and this is the first time apothecaries were subjected to examination. That section says, "And to prevent any person or persons from practising as an apothecary without being properly qualified to practise as such, be it further concted that from and

nfter the first day of August, 1815, it shall not he lawful for any person or persons (except persons already in practice as such) to practise as an apothecary in any part of England or Wales, unless he or they shall have been examined by the said Court of Examiners, or the major part of them, and have recoived a certificate of his or their boing duly qualified to practise as such from the said Court of Examiners or the major part of them as aforesaid, who are hereby authorised and required to examine all person and persons applying to them, for the purpose of ascertaining the skill and abilities of such person or persons in the science and practice of medicine, and his or their fitness and qualification to practise as an apothecary; and the said Court of Examiners or the major part of them are hereby empowered either to reject such person or persons, or to grant a certificate of such examination, and of his or their qualification to practise as an apothecary as aforesaid, provided always that no person shall be admitted to such examination nutil he shall have attained the full age of 21 years." Your lordships see that the examination there is dealing with that which would be a matter of science and of skill, not as formerly, prohably that which had been one of the principal duties and the practice of apothecaries—namely, to sell medicines and drugs; but the examiners had to ascertain the skill and abilities of such person or persons in the science and practice of medicine. Of course, that is quits distinct, at this time, from the Collsge of Surgeons and from surgical cases, where they had to deal with cases of internal diseases, such as fevers, measles, and other casss of that kind; and this skill and science in medicine was perfectly distinct, of course, from the practice of apothecaries selling drugs and medicines in the shop, which frequently before this tims they had hesn in the hahit of doing-carrying on their business in that way. Perhaps, my lords, I may mention that by section 15 it is provided that "no person shall he admitted to any such examination for a certificare to practiss as an apothecary nnless he shall have served an apprenticeship of not less than five years to an apothecary, and unless he shall produce testimonials to the satisfaction of the said Court of Examiners of a sufficient medical education and of a good moral conduct."

Then, my lords, section 20 is the section under which these proceedings have been taken. Of courss, much turns upon ths words of this section, wherehy it is enacted "that if any person (except such as ars then actually practising as such) shall, after the first day of August, 1815, act or practise as an apothecary in any part of England or Wales without having obtained such certificate as aforesaid, every person so offending shall, for every such offence, forfsit and pay the sum of 201.; and if any person (except such as are then acting as such, and excepting persons who have actually served an apprenticeship as aforesaid) shall, after the said first day of August, 1815, act as an assistant to any apothscary to compound and dispense medicines" -which is put in opposition to the words "act or practise as an apothecary," which is different from the msre compounding or dispensing medicins-" without having obtained such certificate as aforesaid, every person so offending shall for svery such

offence forfsit and pay the sum of 51."

Then, my lords, there is a section to which many authoritiss in this cass have reference. That is section 21, which prevents any apothecary from recovering any charges in any court of law unless such apothecary shall prove on the trial that hs was in practice as an apothecary prior to or on August 1, 1815, or that he has obtained a certificate to practise as an apothecary

under the provisions of this Act.

Then, my lords, as far as I know, there is only one other section which I think bears very much on the matter. That is section 28, npon which a distinct question in this canse arises. By that section it is provided, "That nothing in this Act contained shall extend or be construed to extend to prejudice or in any way to affect the trade or business of a chemist and druggist in the buying, preparing, compounding, dispensing and vending drugs, medicines and medicinable compounds, wholesale and retail; but all persons using or exercising the said trade or business, or who shall or may hereafter use or exercise the same, shall and may uso, exercise and carry on the same trade or business in such manner, and as fully and nmply to all intents and purposes, as the same trade or business was used, exercised or carried on by chemists and druggists before the passing of this Act."

Mn. BARON CLEASHY: Have you got these medical Acts in court collected in oue volume?
Sir Henry James: No, my lord.

MR. BARON CLEASNY: They are all together, I think, somewhere. I have got the Act in question here, but not any other medical Act.

SIR HENRY JAMES: I can give them to your lordships. MR. BARON CLEASBY: I mean, are they all collected in onc

volume?

Sin Henney James: I think there are very few Acts which affect this question. I will mention to your lordships what they are, hut I was calling your lordships' attection to section 28, which reserves the right to chemists and druggists, not at the time of the passing of this Act living, but to any person, who, at any future time, should carry on the business of a chemist and druggist, the right to carry on that trade or business as fully and amply to all intents and purposes as the same trade or business was used, exercised or carried on by chemists and druggists before the passing of this Act. My lords, a

distinct and separate point arises upon that section 28.

THE LORD CHIEF BARON: You may defer dealing with that point at present. You say there is a separate point arising on that. You do not propose to dsal with that at present, but you are going hack to some other point which you have departed

SIR HENRY JAMES: I will call your lordships' attention to the second point afterwards. Having mentioned it in order to call your lordships' attention to the sections of the Act which bear upon this question, I will deal with the points as they occur in order.

Now, my lords, I have to ask you to determine whether (upon the facts, to which we shall have to apply certain coesiderations) the appellant hers has, under the 20th section of this Act of 55 Geo. III., acted or practised as an apothecary.
THE LORD CHIEF BARON: Yes.

SIR HENRY JAMES: My lords, what I have to submit to you is that, inasmuch as these words "acting or practising as an apothecary," must have a certain meaning attached to them, they must mean that the person is holding himself out and carrying on husiness as an apothecary; and it is not enough if a person, for charity's sake, or any other reason, does one isolated act—ons thing that an apothecary would do as a portion of his profession—to bring him within this clause so as to render him subject to the penalties stated in the section of this Act under which these proceedings are taken.

MR. BARON CLEASBY: This is the 20th section which you are

dealing with now.
Sin Henry James: Yes, my lords. A chemist and druggist from the vsrv naturs of his husiness, if he naver opens his mouth, if he exercises no discretion, if he takes no notics of anything a person who applies to him as a customer is suffering from, but if he merely sells him a medicins, is, in one sense, doing that which an apothecary does. An apothecary sells his medicios; he obtains a price for it, and can sue for it as for goods seld and delivered. Therefore, my lords, if it is to be said of a chemist and druggist, who is, no doubt, not only ostensihly but really a person the purport and object of whose business is to sell his drugs and wares, that if ho does, for the sake of sslling these warss, a certain thing which ac apothecary does in the ordinary course of the carrying on of his husiness, he is liable to penalties under this Act, then I shall submit to your lordships that that contention cannot he supported, and that that is not enough to bring the chemist and druggist within the meaning of the Act. But the words must be looked at in a broader view, namely, the "acting or practising as an apothscary," meaning thereby that he shall be substantially carrying on his business in such a way as to come upon equal lines with an apothecary.

THE LORD CHIEF BARON: You are contending that one act

is not sufficient.

Sir Henry James: I am contending, not only that one act may not in certaic cases be evidence that he is carrying on the business of or acting as an apothecary, but I am also contending that one act is only a portion of what an apothecary doos to carry on his business; and when I show that that is what a chemist would do to carry on his business I show that that is not enough.

THE LORD CHIEF BARON: The act which the defendant has

done is a compound act; it is two acts.

Sir Henny James: When we come to the evidence, I will deal with that.

THE LORD CHIEF BARON: There is one act with this person of the name of Death, and there is another act with a person of the name of Hubbard. First of all, I wish you to point out to us whether you wish to contend that thoro must be, first of all more than one act, and then possibly more than two acts, in order to bring a persou within the operation of the Act of George III.

SIR HENRY JAMES: No.

THE LORD CHIEF BARON: You used the term "holding out,"

and that is rather important.

SIR HENRY JAMES: Nothing was further from my mind than to use the term "one act" in the sonso of meaning "a sale to one porson." I was speaking of it generally. I was speaking of "one act" in the senso of one portion of the profession of an apothocary. I am speaking of things and employing a generic term, and not particularly in relation to what is before your lordships. What I was ondeavouring to explain to your lordships was that, whereas an apothecary, in the practice of his profession, has naturally to do (as I shall show your lordships) a great many things which require the oxerciso of skill and knowledge, as we have found in the Act of 55 George III., in exorcising that science and skill whilst ho practises his profession generally, he will have to attend to many classes of cases requiring skill and knowledge, and, in the conrse of carrying on that profession, will have to sell his drugs to the patients whom he attends; so I say it is not sufficient to hring a chemist and druggist within this Act to show that he equally with the apothecary does one of those acts of which the apothecary does many in order to carry on his profession. I hope I make myself understood as to the sense in which I use the words "one act." I am speaking of the chemist and druggist generally every day of his life, doing one of these things which I shall have to admit an apothecary equally does—namely, selling his drugs.

THE LORD CHIEF BARON: Is there any doubt that that

is so?

SIR HENRY JAMES: I hope not.

THE LORD CHIEF BARON: There is no doubt in the world that every chemist and druggist in London compounds certain medicines, and an apothecary does the same.

SIR HENRY JAMES: And must dispense them.

THE LORD CHIEF BARON: And dispenses them. By that

you mean, sells them.

SIR HENRY JAMES: He takes money for them, but probably the word "dispensing" would have rather a different meaning from the word "selling."

THE LORD CHIEF BARON: Then what is the meaning which you would give to that word "dispensing?"

SIR HENRY JAMES: I want your lordships rather to define at. Perhaps it is essential that you should. "Selling" would apply rather to a patent medicine, or a box of matches, or something of that kind. I should think that dispensing

has rather a different meaning from that.

THE LORD CHIEF BARON: It may have. You may attach a different meaning to it, and I want therefore to ask you what you mean by it. You may call it dispensing if there is a physician's prescription to mix. In that case the chemist prepares it, and supplies it for moncy. It is both a selling, and it also comes under the grander name given to it of dispensing.

SIR HENRY JAMES: I should have thought that selling was

near the mark.

THE LORD CHIEF BARON: Suppose it to be so, then I only want to know the way in which you use the word. In what sense do you use it?

SIR HENRY JAMES: I should think the right use of the word "selling" is in the sense in which overything is sold which

requires no skill.

Ma. BARON CLEASBY: Merely sold; whoreas dispensing

would be sold for a purpose.

SIR HENRY JAMES: I want to point out that dispensing may include the making up of the medicine. It may include the bringing togother of several chemical substances in order to produce one result, and it must be subject to the skill of the chemist as to the quantities of these different substances, and as to the proportionate quantities into which they are to be placed together, as they may be poisonous if they are not properly compounded.

MR. BARON CLEASNY: You mean as to the mode of mixing

SIR HENRY JAMES: That is what I was endcavouring to convoy to your lordships. It is the mode of mixing them up.

THE LORD CHIEF BARON: I know but two modes in which a chemist and druggist solls or dispenses his medicines, and it is very immaterial, as it strikes me, whether you call the one or

the other, or both, by the term selling or disponsing. If a man goes into a shop and asks for a bottle of Godfrey's Cordial, which was once woll known as a patent medicine, and which is a well-known preparation, the chemist hands it to him over the counter and recoives the monoy. Another mode in which he carries ou his business, is where a physician's prescription is brought to him and laid before him. He then compounds a medicine which perhaps he has never seen or heard of in all his experience before, but he compounds it according to the prescription of the physician which is before him. Then he returns the prescription of the physician, and at the same time ho delivers to the customer the medicine which ho has compounded, and receives then the payment for it. I call both of those sales, but one is called a sale and the othor dispensing.

SIR HENRY JAMES: Is there not another class of dispensing?

THE LORD CHIEF BARON: There may be.

SIR HENRY JAMES: The second view which your lordship has put is the case where a chemist, having a prescription written by a physician, makes that prescription up, but there he would only have to use that skill which Mr. Baron Cleasby has referred to, namely, the skill of mixing the drugs.

THE LORD CHIEF BARON: What is the third mode?

SIR HENRY JAMES: Supposing a person goes into a shop without any prescription, and says, "Give me a dosc of Epsom Salts." The chemist sells it to him, but he must look to the age of the person who asks him for these Epsom salts, and be it a strong man or a weak child, he must give him a fair dose proportionate to his age and condition. He could not ask the man, "Do you want 2 ozs. of Epsom salts," or give him treble what he ought to take.

THE LORD CHIEF BARON: If a man comes into his shop and asks for a dose of Epsom salts-inasmuch as a dose for a fullgrown strong man and a dose for a child of six years old would be a very different quantity-I am not saying that he must not ask for what description of person it is intended, or that he

must not regulate the dose accordingly.

SIR HENRY JAMES: But he says give it to me en masse. Supposing you go into a chemist's shop and say, "Givo me an effervescing draught:" he dispenses that. You do not carry that away in a bottle in your pocket, but you drink it on the

THE LORD CHIEF BARON: I see no objection to that, and you may snb-divide the business of a chemist and druggist into

twenty such operations.

SIR HENRY JAMES: That is dispensing. Directly you get to the case I put of medicines such as Epsom salts, there he acts, not on a prescription of a physician, which is directory, and which he has to obey, but in giving you that which you ask for, and in dispensing that he must bring in the exercise of some skill, because the customer does not know how it is to bo mixed, or what quantity of water is to be used with it. That act of the chemist is the result of his skill and knowledge in his business.

THE LORD CHIEF BARON: You will be able to tell us on Friday, when we resume this argument, into how many subdivisions you will divide the business of a chemist and druggist.

The proceedings were then adjourned until Friday, November 23.

The arguments were resumed on November 23. Considerable interest was manifosted in the proceedings, several well-known chemists boing in court during the hearing of the case.

SIR HENRY JAMES, on resuming his argument, said: I will remind your lordships that the question involved in this case turns first upon the construction of the 20th section of the 55th Geo. III., cap. 194, and when your lordships have determined what is the proper construction to be put upon that section, you will have to consider whother the facts of the case as they appear on the notes of the learned County Court Judge, bring the appellant within that section. I will remind your lordships that that section says that if any person shall act or practise as an apothecary in any part of England or Walos without a cortificato, he shall be liable to a penalty.

I ask your lordships, first, to consider what is the meaning of "acting or practising as an apothocary;" and, when that is determined, probably the duty of applying that determination to the facts of this case will not be so very difficult. My contention with relation to the words "acting or practising as an apothocary" is that a person to "act or practise as an apothocary" must not only do some particular act which is identical with one act that an apothecary does, but also that in substance the person complained of must hold himself ont as in fact substantially doing the same acts that an apothecary in the course

of his profession does.

Now, my lords, in order to determine whether there has been any "neting or practising as an apothecary" in the sense in which I submit the words should he used, it is necessary very shortly to consider what an apothecary is, and to trace how an apothecary has sprung into oxistence. It will be necessary to see both what an apothecary was at the time when this Act was passed, and also to see what an apothecary is now, when this Act, which is almost obsolete, as I think I shall show your lord-

ships, is sought to be put in force. My lords, an apothecary appears to have been originally a mere shopkeeper, and, at the timo when the physician's existence and the art of surgery was first recognised by the charter of the 10th Henry VIII. probably nn apothecary was unknown ns a person who was required to possess any skill in relation to the art of medicine. That charter of the 10th Henry VIII. seems to have been the first recognition (at least the first of which I know) of the existence of any person practising medi-cine requiring skill in relation to its practice. That charter is set out in, and confirmed by, the statute 14 and 15 Henry VIII., cap. 5. No doubt that charter and that statute were intended only to apply to physicians and surgeons, but the words are general; they protect "all persons who shall exercise medicine;" still there is no doubt that at that time the persons intended to be protected were physicians-and it may be surgeons. I cannot find a charter under which the Royal College of Surgeons oxisted as distinct from the charter of the Royal College of Physicians. The persons who at that time were npothecaries were persons simply who carried on their business at a shop; and probably it will be found in connection with the business of a grocer. The apothecaries never brought to hear any skill in the art or practice of medicine, but they were mere dispensers and sellers of drugs. By degrees that position of an npothecary became altered, and in the reign of James I .- in the sixth year of his reign-there was a charter which is recited in the Act of 55 George III., cnp. 194. This charter, my lords, is recited in the preamble to the Act, and your lordships will see that in reciting the charter of the 6th of James I. the apothecaries are spoken of in that charter in these terms, "And to nll and singular other persons whomsoever brought up and skilful iu the nrt, mystery, or faculty of apothecaries, and exercising the same right, mystery, or faculty, then being freemen of the mystery of grocers in the city of London, or being freemen of any other art, mystery, or faculty in the said city of London." My lords, what appears by that charter to have been intended is, that they should he subject to supervision, and that certain persons should have power to inquire into the nature of the drugs and wares sold by persons who, uo doubt, at that time were so selling them in shops as a grocer would sell his wares. Now, my lords, that was the condition of things in the time of James I., but an apothecary from that time, and probably before that time, must have been growing into a person who required to use skill in his profession, and, no doubt nt that time, even, was to some extent a person other than a grocer or a seller of wares and drugs; because in the 6 and 7 of William III., cap. 4, I find, "Whereas the art of the apothecary is of great and general use and henefit by reason of their constant and necessary assistance to His Majesty's subjects which should ohlige them solely to attend the duty of their profession; yet by reason that they are compelled to serve several parish, ward and leet offices in the places where they live, and are frequently summoned on juries and inquests, which take up great part of their time, they cannot perform the trusts reposed in them as they ought, nor attend the sick with such diligence as is required. And whereas King James I., by his letters patent under the great Seal of England did incorporate the apothecaries exercising that art within London and seven miles compass by the name of the Master, Wardens and Society of the Art and Mystery of the Apothecaries of the City of London, Be it enacted" that apothecaries shall be exempt from performing certain duties, such as serving on jurics, attending wardmotes, and so on. The exemptions are set out in sections 2 & 3 of the Act; and with these I need not trouble your fordships; but the point is that the apothecaries must at that time have had other duties than that of mere sellers of drugs and wares in shops. Still, their position was undefined as to whether they were entitled as against physicians and surgeons to practise the art of any dicine; and the point was raised in the case of "Rose v. Two College of Physicians," which is reported in the 6th Modern Reports at page 44.

My lords, the action was then brought under the statute of the 14 and 15 of Henry VIII., for practising physic within seven miles of London without license.

THE LORD CHIEF BARON: Practising as a physician? She Henry James: Practising physic, which would no doubt include both surgeon's and physician's practice. The words here are, "Practising physic within seven miles of London without license." It was an action which was brought under the statute 14 and 15 Henry VIII., cap 5, for practising physic within seven miles of London without license. The case upon the special verdict was that the defendant, being an apothecary hy trado, was sent to hy John Scale, then sick of a certain distemper, and he having seen and being informed of the said distemper did, without prescription or advice of a doctor and without any fee for advice, compound and send to the said John Scalo several parcels of physic as proper for his said distemper, only taking the price of his drugs. The question was whether this is a practising of physic such as is prohibited by the statute. And, ofter several arguments, the court at last unanimously agreed that practising of physic within this statute consists—" First, In judging of the diseaso and its nature from the constitution of the patient, and many other circumstances; Secondly, In judging of the fittest and properest remedy for the disease; Thirdly, In directing and ordering the application of the remedy to the disease; and that the proper business of an apothecary is to make and compound or prepare the prescriptions of the doctor pursuant to his directions. And it was agreed that the defendant, taking upon himself to send physic to a patient as proper for his distemper, without taking aught for his pains, has plainly taken upon himself to judge of the disease and fitness of remedy, as also the executive or directing part." And the plaintiff had judgment. But, my lords, that judgment was wrong, hecause in 5 Brown's Parliamentary Cases, page 553, the judgment in that case is overruled. My lords, I am sorry that no light is thrown upon the reasons for the judgment of the House of Lords. As is usual in these reports, the arguments of counsel are always given as if they were important, but the judgment of the Court is treated with apparent contempt, because it is simply said that after hearing the arguments the House of Lords reversed the decision.

THE LORD CHIEF BARON: But what was the decision? SIR HENRY JAMES: They reversed the decision which I have rend to you from the 6th Modern Reports.

THE LORD CHIEF BARON: You have read the special verdict,

hut I did not catch what was the decision.

SIR HENRY JAMES: The decision was for the plaintiff. THE LORD CHIEF BARON: That he had practised as n physician.

SIR HENRY JAMES: That he had practised physic.

THE LORD CHIEF BARON: As "n physicinu," I thought you

SIR HENRY JAMES: The decision which is reported in the 6th Modern Reports was that upon an action being brought to recover penalties under the 14 and 15 Henry VIII, there was a practising of physic within seven miles of London, which rendered the defendant liable to the penalty. The words of the charter are medicinæ exerccunt.

THE LORD CHIEF BARON: The judgment was that the defendant had practised physic; that is as a physician?

Sir Henry James: He had been sent for to the house of a patient; he went to the patient's house, and he examined him; he returned to his own shop-for apothecaries all had shops in those days-and he sent him drugs, charging him for those drugs. Then your lordships will recollect the three resolutions which the court urged us to what constituted a practising of physic, and held that those facts constituted it a practice.

THE LORD CHIEF BARON: That you say was overruled.

SIR HENRY JAMES: Yes, then the whole report is summed up in "Brown" in this way, "It was ordered that the judgment given in the Queen's Bench, against the said Mr. Rose, should be reversed,"

THE LORD CHIEF BARON: But does not the report in " Brown " give the arguments of counsel and what the points were; you say that the judgment gives no reasons.

Sir Henry James: It gives the nrguments of counsel, but

they do not seem to mo to touch the point at all.

THE LORD CHIEF BARON: That may be; but you say that the judgment which overruled the Court of the King's Bench gives no reasons.

SIR HENRY JAMES: No, my lord, it gives none.

THE LORD CHIEF BARON: If it he necessary we will refer to the case and see whether we can collect what were the reasons for the judgment from the arguments and points made by counsel.

SIR HENRY JAMES: I thought the case in "Modern" would show something of the principle on which the court proceeded, and I have read those arguments (which are very long), but they do not seem much to the point. However, I will read them if your lordships like.

THE LORD CHIEF BARON: No, do not read anything which you do not think it essential to hring to the notice of the court

for the purpose of your case.

SIR HENRY JAMES: My lords, the facts of that case were these: "The plaintiff, who was an apothecary and freeman of London, attended one Scale, a hutcher in the parish of Saint Martin-in-the-Fields, and made up and administered proper medicines to him, but without any license from the Faculty, and also without the direction of any physician, and without taking or demanding any fee for his advice. The defendants, apprehending this conduct to be an infringement of their privileges, brought their action against the plaintiff to recover the penalty of 5l. per month, under the above clause in their charter, and on the trial the jury found a special verdict, stating the charter, the confirmatory statute, and the facts of the case, and submitted to the court whether the defendant Rose did practise physic within the intent of the letters patent and Act of Parliament, and after this verdict had been three several times argued in the Court of Queen's Bench, the judges were unanimously of the opinion that the facts found did amount to the practising physic within the meaning of the Act of Parliament, and gave judgment accordingly. Hereupon a writ of error in Parliament was brought to reverse this judgment, and on hehalf of the plaintiff in error it was argued that the consequences of it would not only ruin him but all other apothecaries, as in case of the affirmance of this judgment they could not exercise their profession without the license of a physician. That the constant usage and practice which had always been with the apothecary was conceived to be the best expounder of this charter, and that therefore the selling a few lozenges or a small electnary to any porson asking a remedy for a cold, or in other ordinary or common cases where the medicines had a known aud certain effect, could not be deemed unlawful, or practising as a physician, where no fee was taken or demanded for the same. physicians, by straining an Act made so long ago, endeavoured to monopolise all manner of physic sololy to themselves, and if they should succeed in this attempt it would be attended with many mischievous consequences. For in the first place it would be laying a heavy tax on the nobility and gentry, who in the slightest cases, and even for their common servants, could not have any kind of medicine without consulting and giving a foe to a member of the college. It would also he a great oppression upon poor families, who, not being able to hear the charge of a fee, would be deprived of all kind of assistance in their necessities, and it would prove extremely prejudicial to all sick persons who, in case of sudden accidents or new symptoms happening in the night time, generally send for the apothecary, but who should not dare to apply the least remedy without running the hazard of being ruined. On the other side it was contended that by several orders of the college its members were enjoined to give their advice to the poor gratis, and that not only to such as could come to them for it, hut every physician in his neighbourhood was obliged to visit the sick poor at their own lodgings, and therefore the objection that, if the apothecaries could not administer physic but hy the prescription of a physician, the poorest sort of people would he lost for want of proper remedies had not the least foundation. And when these orders were observed not to have their full intended effect on account of the high prices which the apothecaries generally demanded for the remedies prescribed, whereby the poor were deterred from consulting the physician for fear of the charge of the physic, the college by a joint-stock erected several dispensaries in town, where, after the physicians had given their advice gratis, the patient might have the physic prescribed for a third, and generally less, of what the apothecaries used to exact for it, hy which expedient many hundred persons of mean condition received their cures at a very small expense." Your lordships wished me to read these arguments, but they are all of this general nature, and do not touch the point of the case. However, they were argued before Parliament, and, apparently, are what we should call the popular argument. However, that argument does not touch the policy of the Act.

Now, my lords, Mr. Rose by that judgment certainly established this right-that apothecaries under the charter of James I. had the right to attend patients in the sense in which we use the term now, at their own houses, bringing skill to bear upon the diseases from which these patients were suffering. That seems to have been in addition to, and different frem, what had been the primary office of an apethecary, namely, making up and dispensing and selling the prescription that a physician wrote. My lords, that portion of the apothecaries' duty is set out very fully in the 5th section of the Act of George III., which we are discussing: "And whereas it is the duty of every person using or exercising the art and mystery of an apothecary to prepare with exactness and to dispense such medicines as may be directed by any physician lawfully licensed to practise physic by the president and commonalty of the Faculty of Physic in London, or by either of the two Universities of Oxford or Cambridge, therefore, for the further protection, security, aud henefit of His Majesty's subjects, and for the hetter regulation of the practice of physic throughout England and Wales, be it enacted that, if any person using or exercising the art and mystery of an apothecary shall at any time knowingly, wilfully, and contumaciously refuse to make, mix, compound, prepare, give, apply, or administer, or any way to sell, set on sale, put forth or put to sale, to any person or persons whatever, any medicines, compound medicines, or medicinable composition, or shall deliherately or negligently, falsely, unfaithfully, or unduly make, mix, compound, prepare, give, apply, or administer, or any way sell, set on sale, put forth and put to sale, to any person or persons whatever, any medicines, compound medicines, or medicinable compositions, as directed by any prescription, order, or receipt, signed with the initials, in his own handwriting, of any physician so lawfully licensed to practise physic, such person or persons so offending shall upon complaint made within twenty-one days hy such physician, and upon conviction of such offence hefore any of His Majesty's Justices of the Peace, unless such offender can show some satisfactory reason, excuse, or justification in this behalf, forfeit, for the first offence, the sum of 5l.; for the second offence the sum of 10l.; and for the third offence he shall forfeit his certificate, and be rendered incapable in future of using or exercising the art and mystery of an apothecary, and be liablo to the penalty inflicted by this Act upon all who practise as such without a certificate, in the same manner as if such party so convicted had never been furnished with a certificate enabling him to practise as an apothecary, and such offender so deprived of his certificate shall be rendered and deemed incapable in future of receiving and holding any fresh certificate, unless the said party so applying for a renewal of his certificate shall faithfully promise, undertake, and give good and sufficient security that he will not in future be guilty of the like offence.'

My lords, you will see that even in 1815, so far as that section is concerned, the duty of an apothecary (and the only duty mentioned in that section), is that of compounding the medicine which a physician may prescribe; but it is clear that those duties which are set out were not commonly duties that an apothecary in the practice of his profession would fulfil.

Now there is a case in the 4th Barnewall and Adolphus, at page 625, of "The Apothecaries' Company v. Allen," which I cite at this moment for the dictum of Mr. Justice Parke, afterwards Lord Wensleydale. Mr. Justice Parke was then sitting in the Court of Queen's Bench, and he says this:—"The preamble to section 5 does not propose to recite all the duties of an apothecary, but only those referred to by the penal enact-

ments which follow."

So that your lordships see that in 1815 it was calculated that an apothecary was a person who did make up and sell, without bringing to bear any skill upon the subject, prescriptions which a physician wrote; yet no doubt at that time the apothecaries had grown into existence as a profession where skill other than that of selling modicines was required. Of course, practically, as your lordships have to determine and apply this Act uow, that portion of an apothecary's business which is mentioned in that section of the Act of 1815 is substantially gone. No apothecary now of course keeps a shop-it may he that sometimes they do under the Pharmacy Act, for it is possible that a person who is a chemist and druggist may also have a diploma from Apothecaries' Hall, but, qua apothecary, he has ceased to carry on the business of selling drugs, and I presume that if anybody were to go with the prescripting fa physician to a gentleman who is practising as an apothecary now, and were to ask him to make up the prescription of any eminent physician, without seeing the patient, but simply to act as a chemist and druggist, and charge his 2s. 6d. or 3s., he has no authority to do it.

THE LORD CHIEF BARON: Why?

SIR HENRY JAMES: I conceive he has no more authority to do it than a barrister would have to endorse a writ.

THE LORD CHIEF BARON: Why, if this statute be unrepealed? You are making an assertion of fact and of usago that if any gentleman were to go with a prescription of Sir William Gull's and present it to an apothecary, the apothecary would refuse to make it up. You state that as a fact. It may bo

so; but why?

Sir Henry James: I must put it to your lordships as an argument that the muking up of a prescription of a physician now falls into the hands of chemists and druggists.

THE LORD CHIEF BARON: There is no doubt about that; but why do you say, whilst this statuto is unrepealed, that if a gentleman has consulted Sir William Gull and obtained a prescription from him, and then instead of going to an ordinary chemist and druggist he prefers going to an apothecary to eall upon him to make up the medicine which Sir William Gull has prescribed, why do you say he would not do it?

She Henry James: Because now the fact is that almost every apothecary has a diploma from the College of Surgeons. The general practitioner that existe now, it is a matter of common knowledge, does not exist separately and distinctly as an apothecary selling drugs, but he exists as a person bringing

skill to bear in all diseases which he treats.

MR. BARON CLEASBY: What you suy is perhaps true

generally, but not universally, I should suggest.

SIR HENRY JAMES: I will not say that it is not sometimes done, but the practice is not so. The practice now is that an apotheeary practising as a general practitioner—qua apotheeary—has no shop. In the next place, he does not hold it out simply as his business to sell a drug mentioned in a paper which another person makes out; but an apothecary practises with a diploma from the College of Surgeons, also with a diploma from the Apothecaries' Hall. He is not a seller of drugs or a bare dispenser, but he is a person who brings skill to bear in the interest of and upon the diseases of his patients. Your lordships are aware that an apothecary may attend as an apothecary and not charge for the cale of any druge at all; he is entitled to charge for his bare skill, and the knowledge of hie art and mystery which he brings to bear upon the disease hie patient is suffering from, and he need not charge for any drugs at all. That was determined in the case of "Town v. Lady Gresley," in the 3rd Carrington and Payne, 581. Chief Justice Best there says, it being an action for work and labour as an apothecary and for medicines furnished, that the plaintiff had charged both for medicines and attendance. Scrjeant Wilde submitted that the charge for attendance must be taken off, as an apothecary had no right to make such a charge. Chief Justice Best says, "I am inclined to think that there is something in some of the Acts of Parliament upon the subject of attendances; but if there is not any express provision, yet the practice is so inveterate that I cannot allow the plaintiff to charge in both ways. An apothecary may charge for attendances if he pleases, and then tho jury will say what is reasonable for those attendances, or he may charge for the modicine he eends, but he cannot be permitted to make a charge for both. I shall recommend the jury in the present case to strike off the charges for attendances, and make an allowance for medicine

THE LORD CHIEF BARON: In that case there was a claim for attendance, and also for the supplying of medicines. it supplying medicines or physicians' prescriptions?

SIR HENRY JAMES: Ho eeems to have supplied them, his

own self.

THE LORD CHIEF BARON: What Chief Justice Best said was that he might charge for attendance if he pleased, and recover, but he could not charge both for attendance and for the medicines supplied pursuant to what may have been the necessitios of the patient.

Sin Henay James: There is a note of the editor in which he puts the position of the apothecary somewhat strongly. That note is this—"This is the first ease which has decided that an apotheeary may charge for his attendances, provided he makes no charge for the medicino he furuishes. There has long existed in the profession a vague and undefined notion that an apothecary eannot charge for attendances. This may have arisen from the fact that an apothecary originally was

only a compounder of medicines prescribed by a physician. There does not appear to be any express provision in any of the acts of parliament upon the subject of attendances, and there is no doubt that the rule laid down by the learned Chief Justice is, in the present state of the medical profession, the most reasonable and the best that could be adopted both for the practitioner and the patient. There are many cases which require both skill and atttendance, but which do not require the administering of much medicine, and it is well known in point of fact that, when attendances are not charged for, much more medicine is often sent than the case actually requires; and also that the charge for medicinee generally bears no propertion to the cost price of the druge. By giving the apothecary the option of charging for medicines or attendances according to the nature of the case, one of those inconveniences will be removed and the other considerably diminiehed.'

THE LORD CHIEF BARON: Does it appear in that case whether the attendances for which the party claimed to be paid were attendancee at the apothecary's own place. Were they attendances on his own premises, or did he go out to visit the patient at the patient's residence. Does that appear either one

way or the other?

SIR HENRY JAMES: I should draw the inference that it was attending at the patient's house, because it says the plaintiff lived near Waterloo Bridge, and the defendant in some other street, which is named, and he charged for medicines and attendances. It does not, however, directly appear, but I should suppose it probably was at the house of the patient. My lords. there is also mention made of the duties of an apothecary in the case of "Allison v. Haydon," which is reported in the 4th Bingham, 619. That was an action of assumpsit for work and labour as a surgeon and apothecary, with counts for medi-cine celd and delivered. At the trial it appeared that the plaintiff had a certificate from the College of Surgeons, but none from the Master and Warden of the Apothecaries' Company. The defendant disputed certain charges for attending him in a typhus fever, and it was objected that he could not recover for those attendances, the 55 Geo. III., cap. 194, sec. 21 having enacted that no apothecary should be allowed to recover any charges claimed by him in a court of law unless he shall prove at the trial that he was in practice prior to or on August I. 1815, or that he has obtained a certificate from the Court of Examiners by the said Act constituted. The learned judge was of this opinion, and the plaintiff was nonsuited. Serjeant Taddy obtained a rule nisi for a new trial on the ground that under this etatute the privilege of the College of Surgeons enabled the plaintiff to charge for medical attendance, section 29 having enacted that the estate shall not lessen, prejudice, or defeat the rights, authorities, privileges, and immunities vested in and exercised and enjoyed by either of the two Universities of Oxford and Cambridge, the Royal College of Physicians, the Royal College of Surgeons, or the said Company of Apothecaries, except such as have been altered, varied, or amended by the Act, or of any person or persone practising as an apothecary previous to the said August 1, but the said Universities, collegee, and persons shall have such rights, save and except as atorosaid, in as beneficial a manner as they might have had if the Act had not been passed. Serjeant Lawes, who showed cause, relied on the express prohibitive language of the statue, no apothecary shall recover any charges unless ho has proved that he has obtained a certificate. Then the plaintiff was non-suited for those charges upon the defendant for attendance upon him, and giving him advice in relation to this typhus fever. In that case Chief Justice Best said: "I think this is a useful law intended to put apothecaries upon a more respectable footing, and to exclude low and ignorant persons from the practice of medicine. But the worde of the Act prevent all persons from recovering for attendance except euch as have duly qualified themselves as apothecarics.

Theu Chief Justice Best read the section: "No one therefore can recover unloss he were practising as an apothecary before 1815, or has a certificate from the Court of Examiners of the Master and Warden of the Apothecaries' Company. If, indeed, the plaintiff had been practising as a surgeon, and had administered medicine as ancillary to a surgical case, his claim could not have been resisted, but he was lowering a typhus fever,

which is the province of the physician or apothecary.

Then, my lords, although this does not bear upon the express peint, the Chief Justice also eays: "A surgeon formerly was a mere operator who joined hie practice to that of a barber. In later times all that has been changed, and the profession has

risen into great and deserved eminence. But the business of a surgeon is properly speaking with external ailments and injuries of the limbs. With a view to the recovery of a patient in a case of that description, he may perhaps prescribe and dispense medicine. But the Act has drawn the distinction between the various departments of the art with great procision. A chomist may prepare and vend, hut not prescribe or administer medicine. Each is protected in his own branch, and neither must interfere with the province of the other. We think the plaintiff has interfered with the province of the apothecary, and that, therefore, this rule must be discharged." Now, my lords, I have quoted these cases to show you that the right of an apothecary is quite distinct from that of vending drugs, and, of course, if your lordships are going to hold that hecause apothecaries formerly sold drugs in their shops, chemists, by selling drugs in their shops, are acting and practising as apothecaries, of course no physician's prescriptions could ever be made up by a chemist and druggist again, because that is now one of the principal parts of their business.

THE LORD CHIEF BARON: What is the meaning of what you

are now contending for, because if this were a mero case of a person going in and asking for a particular medicine, and that medicine being sold over the counter by the appellant in this case, that would be acting merely as a chemist and druggist; but here the patient goes and consults him, and upon that consultation he, recommending him a certain medicine, or thinking that a certain medicine would be proper for and useful to him,

supplies him with that medicine. MR. BARON CLEASBY: I understand what you say, Sir Henry, to be this-that undoubtedly it was at one time part of the business of an apothecary to make up the prescriptions of physicians. Now, you say, that if you are to construe the Act of Parliament in the way which is contended, any chemist who makes up the prescription of a physician in this way is liable to

the penalty imposed by the Act. SIR HENRY JAMES: I say so.

I am most anxious to follow the view expressed by the Lord Chief Baron; but if your lordships will allow me first to follow out the view which I have taken of the case, I think the argument will be shortened when we come to deal with that part of the case in which we apply the principles of construction to this case. It is rather difficult, bofore we determine what this statute means, to spring at once into the facts of this case. My lords, I am still upon what is "acting and practising as an apothecary," and in order to show what is the meaning of this statute, it is necessary to know what an apothecary was, and in what way he acted in his business. I shall show you that there was in former times hut one act that was done by an apothecary, namely, that he sold wares, and that afterwards by degrees he had attached to his existence as an apothecary the performance of other duties, and that he practised and acted in a different manner, namely, that he brought skill to bear upon attending patients for diseases in other cases than those which were called surgical cases, namely, cases such as those of organic disease, cases where the ordinary functions did not act from disoase, and in all cases except injuries, it was the province of an apothecary to attend upon the patient and to give him advice; and I will show you that although he sold no drug, although there was no medicine administered, and, therefore, that no drug could have been sold, he had a right to charge for his attendance, namely, for the advice he gave to a patient, without selling anything at all. When we come to consider this Act, I think your lordships will find, as I have pointed out, that you cannot construe the Act literally, because, if you say that a chemist selling a drug is "acting and practising as an apothecary," you at once reduce the Act to an absurdity. It is true that in selling a drug he acts as an apothecary would act, and perhaps did act, to some extent in 1815, because an apothecary might have sold drugs then, and he might have practised as an apothecary in that sonso. Still, your lordships are not going to convict a man for that; therefore, so far as anything is dono in relation to the selling of a drug, I contend that that does not come within the 20th section of the 55th George III., cap. 194, and that it must be something other than and different from the performance of the duty of an apothecary, quâ the selling of a drug.

Now, my lords, there are some cases that throw light upon this question, and those are cases in which it was necessary to construo the 21st section of this Act. Your lordships will recollect that, by the 21st section, it was enacted that no apothecary should be allowed to recover any charges claimed by him in any court of law, unless such apothecary should prove on the trial that he was in practice as an apothecary prior to or on August 1, 1815, or that he had obtained a certificate to practise as an apothocary from the Apothecaries Society.

Your lordships see that, after the passing of this Act, there were many questions which arose when an apothecary brought his action upon his bill; because all the apothecaries who had been practising before 1815 did not apply again for a certificate, and did not subject themselves to examination; and, in order to prove their right to recover, they had to prove (being without a certificate) that, under section 21, they were entitled to practise, because they had practised as apothecaries before August 1, 1815. Then, my lords, in these cases the judges had to determine whether they had, or had not, practised.

THE LORD CHIEF BARON: Of course this man, the appel-

lant, did not practise before 1815.

SIR HENRY JAMES: Oh, no, my lord. I am afraid I have not made myself understood. Your lordships see that in section 20, we are discussing the words "acting or practising as an apothecary." If your lordships will look at section 21, the words are not quite the same, but they say that a person could practise after 1815 if he was in practice as an apothecary before. Therefore, I thought it was of some value to see what was the meaning of the words in section 21, "In practice as an apothecary," as bearing upon the proper construction to be put upon the words "acting or practising as an apothecary," in section 20. In that view I thought it was advisable to look at the cases where a construction had been put npon the words "in practice," in section 21. It has nothing to do with this gentleman, who, I hope, was not in practice before 1815—he would be a very old man if he was-(laughter). The question that had to be determined in those cases under section 21 arose always in actions eithor for penalties or for-

Mr. Baron Cleasby: I cannot help regarding this as a most important question. I myself feel great difficulty in understanding it sufficiently to deal with it as the case stands at present, because I think the 28th section of the 55th Geo. III. is a most important one. It is transparent that there are four branches in the medical profession—namely, physicians, surgeons, apothecaries, and chemists. You will find it is laid down so. Well, in considering what they claim to be entitled to after the Act of 1815, I cannot help referring to the 28th section of this Act, which recognises the chemists as a branch of the profession, and reserves to them all the rights which they were in the habit of exercising rightly or wrongly before 1815. What materials have we before us to ascertain anything as to the

present defendant boing entitled to that.

SIR HENRY JAMES: Your lordships see that this is a case not only of great importance to chemists and druggists, but to every poor person who enters a chemist's and druggist's shop. That 28th section is entirely different from the point we are now discussing. I shall have to take your lordships' view upon that; and, though the learned County Court Judge has found no fact upon that, there is the evidence of the two witnesses Parsons and Glazier.

MR. BARON CLEASBY: If you show, by going back to the practice for years past, that chemists have been in the habit of dispensing across the counter, you must give all the evidence which you can as to what now is, and has been for a consider-

able time past, the husiness of a chemist.

THE LORD CHIEF BARON: Of course you know that if upon this case it should appear that the defendant has done no more than every chemist and druggist in the kingdom has a right to do and he has not acted as an apothecary, then the judgment is

MR. BARON CLEASHY: He has acted as an apothecary, and the question is, Has he the right to do it? He acted as an apothocary because he prepared and mixed up a prescription.

SIR HENRY JAMES: My lords, I have gone over some ground which may make it appear, at first sight, to be antagonistic to the statute; but in order to show what an apothocary was, I show what is now the common business of a chemist and druggist. I think I can show that under the Pharmacy Act; and I will show that, until lately, an apothecary did nothing but sell drugs. It is important, therefore, to see whether that which every chemist has done, and is always doing, does not come in one senso within the construction of the words "acting or practising as an apothecary;" and I will ondeavour to show with reference to that Act of selling the drugs (which of course is acting and practising as an apothocary) that that construction cannot be put upon the words. Do I understand Mr. Baron Cleashy to say that he thinks there should be some more com-

plete finding on the part of the County Court Judge?

THE LORD CHIEF BARON: Be it in what words you like, if an apothecary has power to do what a chemist and druggist has also power to do-that is, to make up prescription, and vend medicines across the counter; then, so far as that may be done by an apothecary who happens to have an apethecary's certificate, it may be done by a chemist and druggist who has no such certificate, and who is not, therefore, an apothecary. The question here is, whether upon what the defendant has done he is liable to a penalty. Here he has done semething more than merely selling drugs or medicines across the counter, because he has been consulted, in fact, by a man who tells him be has a pain in his chest and sere throat, and he (the ehemist) has thereupon supplied him with a medicine for the purpose. Now, upon that the question here is, whether that is also within the privilege of a chemist and druggist, although it is within the privilege of an apothecnry; and to bold that this man is liable to this peualty, would be to bold that every chemist and drug-

MR. BARON CLEASBY: After a very long argument in this case, it might turn out that this might not arise. It seems to me to be a case of so much importance that what I should recommend would be that a new trial should be directed, and a certiorari applied for to bave the question determined by the Superior

Court.

SIR HENRY JAMES: I cannot, my lords, submit to the view which the Lord Chief Baron has taken of this case, for we shall place hefore your lordships the greatest possible, and the gravest difficulty, to determine where the duty of a chemist and druggist ceases, and where the duty of a medical man hegins. Every chemist and druggist in this country, my lords, is interested in this matter, and is to some extent, taking a practical part in this litigation; therefore, if the Apothecaries' Hall wish to press this to a solemn decision, I accept the suggestion of Mr. Baron Cleasby most readily, and I ask that that should be done. I most cheerfully accept the suggestion that on the question arising on this 28th section, there being no judicial decision upon it, the case should be remitted back to the County Court Judge; and we will undertake to ask, if that is done, for the removal of the case to the Superior Court, so that we may take it to the highest appeal court in the kingdom.

THE LORD CHIEF BARON: I bave no objection to the course which has been suggested by my learned brether Cleasby.

What does the other side think of that?

Mr. Day: I may perhaps be allowed to make a suggestion to your lordsbips. I am told that there is another case, involving precisely the same point, which is now in progress in your lordships' court. I do not know whether or not it is set down for trial as yet, but that is an action brought by the Apotbecaries' Company against a person named Wiggins. I am told that there are two such cases pending, and that these cases are now in train for solemn decision by your lordships. Therefore I would respectfully suggest that if your lordships have any doubt as to what the finding of the County Court Judge is, that this case should be sent down to him for him to give bis finding upon it, and that the matter should not be argued until after the decision of those cases in your lordsbips' court. I would suggest that it should be sent down to the learned County Court Judge to he restated, hecause I am assured that the Judge did find the fact whether there has been an acting as a apothocary.

THE LORD CHIEF BARON: I do not see why it should not be sent down again to he restated. Perbaps no consent would he necessary for that purpose. It would be enough for us to at once direct that this caso should stand over altogether until after the decision of some one or more of those cases to which

you refer.

SIR HENRY JAMES: My friend has mentioned the case of the "Apothecaries' Company v. Wiggins," of which I know nothing, but one of my learned friends, whose assistance I bave in this case, tells me that he does know something of it, and he is counsel in the caso. He informs me that Mr. Wiggins has not acted quito in the same way as this gentleman has

THE LORD CHIEF BANON: That does not signify. If there bo a case which will raise anything like the question or questions which we have to determine, we should like to have that ease tried before a judge and jury in one of the superior courts

before we proceed to adjudge finally upon this case.

SIR HENRY JAMES: I have no objection to this case standing over, hut may I point out that, supposing in the case which is now in your lordships' court it should be proved that the

defendant has been in the habit of attending patients at their houses, and has been giving advice perfectly distinct from the selling of drugs, I am not going to be bound by that.

THE LORD CHIEF BARON: You will neither of you be bound by anything that shall hereafter take place. It is only that we may be a little enlightened by the case, or one of the cases, which are to take place in this court before pronouncing a decision on the case which is now before us. Do not imagine I am throwing out anything like an opinion, but I think it extremely probable that, if we were to consume the day in bearing this case argued, we should think it right, without perbaps giving any reasons for our judgment at all, to direct a new trial.

I think that is extremely probable.

SIR HENRY JAMES: I willingly fall in with Mr. Baron Cleasby's suggestion, and, if your lordships will grant a new trial, we will undertake to move for leave to transfer it to a superior court. At the same time, I may say my client wants a decision in his own case, and not in Mr. Wiggins'.

THE LORD CHIEF BARON: Then if we direct a new triel, probably you will agree at once that the case shall be trans-

ferred from the County Court to this conrt.

Mr. Day: I submit that there is no ground upon which your lordsbips can grant a new trial. The facts of the case were before the judge, and be has given bis decision. If your lordships think the facts are not sufficiently set out in the case, the only proper course to take will he to send the case down to be restated by the County Court judge.

MR. BARON CLEASBY: We have power by the Act of Parliament to direct a new trial if it appears that a material issue or a material question is not disposed of one way or another. I think that to direct a new trial will be the proper way of dis-

posing of this case.

THE LORD CHIEF BARON: Direct a new trial without more ado. and then, if it be brought before this court, either party will give wbatever evidence he thinks fit. Then we shall be in full possession of all the facts which can be proved to enable us to judge whether the defendant has incurred a liability to a penalty or not.

Mr. Day: I submit that there is no issue which has been left undetermined by the County Conrt judge, but that the trial was complete. Your lordships have nothing but the case hefore you, and I am content that the case should go back to the County Court judge for him to restate the case; but I do protest against a new trial being ordered where there is no evidence of any issue being left untried by the learned judge of the County

THE LORD CHIEF BARON: Considering you appear as connsel for a great company, who can only be interested in seeing that the law is conformed to and oheyed, if we think, in such a case as this, where a penalty being claimed in an action, it ought to be more fully considered, and that either party should bave full liberty to give all the evidence which the case admits of, I do not think you ought to object.

SIR HENRY JAMES: I would rather join in the appeal your lordship has made to the counsel for the Apothecaries' Hall. My client can do to-morrow the same thing that he has done before, and a fresh action can be brought, but the costs of this action should be treated as part of the costs of the fresh

action.

MR. DAY: There is no question of costs in this case. I have purposely abstuined from saying a word about costs; that is not the issue here.

THE LORD CHIEF BARON: If, instead of sending it down to he restated hy the County Court judge, you can have a decision of this court at once, it would be better that that should be done. Therefore we will direct at once that the cause shall be retried, and that for that purpose it shall be transferred at once into this court. Let that be so.

SIR HENRY JAMES: If your lordship pleases.

CONNY v. MITCHELL.

(Special Report.)

This ease was tried on November 27, in the Appeal Division of the Supremo Court of Judicature, before Lord Justice James, Lord Justice Baggallay, and Lord Justice Thesiger. It was a suit instituted by the plaintiff, Mr. Henry Bollmann Condy, inventor of the well-known "Condy's Fluid" and "Condy's Ozonised Water," against the defendant, Dr. Mitchell, who was formerly in partnership with him, the object of the suit being

to obtain an injunction restraining the defendant from carrying on the business of making and selling those preparations under the style of "The Condy's Fluid Company," so as to induce the public to believe that the article sold by the defendant as "Condy's Fluid" was really manufactured by Mr. Condy.

Mr. Hemming, Q.C., and Mr. Bradford appeared for the plaintiff; Mr. Kay, Q.C., and Mr. Woodroffe, for the defendant. From the facts of the case, as stated by Mr. Hemming, it appeared that Mr. Condy was a geutleman who had earned a great reputation as a practical and scientific chemist, and that he, in 1856, patented the fluid known as "Condy's Fluid," which was composed of permangunate of soda, and certain antiseptics. He also invented (but did not patent) the preparation known as "Condy's Ozonised Water," which, being an article for the toilet, was prepared from permanganate of lime, permanganate of soda not being free from disagreeable effects upon the skin. On March 25, 1870, in consideration of a payment of 1,500%. by Dr. Mitchell for a share in Mr. Condy's business, the plaintiff and defendant entered into partnership for the manufacture and sale (among other things) of Mr. Condy's preparations. That partnership was carried on under the style of "Bollmann Condy & Co." until 1873, when it was dissolved. A suit of "Mitchell v. Condy" was then instituted, praying that the partnership accounts might be taken, and asking for a declaration that the plaintiff in that suit (Dr. Mitchell) had a right not only to call the fluid he made "Condy's Fluid," hut also to use the name of "Henry Bollmann Condy." Vicehut Chancellor Bacon, before whom the case was tried, however, said "No; you may use the term 'Condy,' as a description of the article, but you must not use the name 'Henry Bollmann Condy.'" His lordship the Vice-Chancellor thereupon said he would give Dr. Mitchell a declaration that he was entitled to use the name "Condy" as a description of the article, in addition to the ordinary partnership decree. Dr. Mitchell's counsel, however, not thinking that declaration worth having, only took the ordinary decree in partnership cases.

In that suit, which was instituted on August 9, 1873, a receiver was appointed, who continued to carry on the business until he was discharged in 1876. In carrying on that business the receiver of course continued to use the old bottles, wrappers, and labels. Immediately after the appointment of the receiver Mr. Condy commenced, in his own name of "H. Bollmann Condy," the same description of business as had been carried on by the firm of "Bollmann Condy & Co.," using for the purpose of carrying on that business labels, bottles, and wrappers similar to those which had been employed by the old firm. Dr. Mitchell shortly afterwards commenced business in partnership with his sons under the style of the "Condy's Fluid Company," also using labels, bottles, and wrappers similar to those previously Mr. Condy complained of the use of those labels, &c., considering them calculated to deceive the public by leading them to believe that they were his preparations, whereas they were prepared by Dr. Mitchell, and were composed of permanganates of potash instead of being composed of permanganate of soda and permanganate of lime, permanganate of potasb being a cheaper and more easily procured substance. He complained particularly of the use by Dr. Mitchell on his wrappers and labels of copies of exhibition medals awarded to him (Condy) personally.

LORD JUSTICE JAMES: They were not awarded as medals of honour to him, but as medals of houour to the article manufactured.

MR. HEMMING: They were awarded to Mr. Condy, before the partnership, as a distinguished chemist, who had made very valuable preparations. They were not confined to Condy's

LORD JUSTICE JAMES: I suppose the real object of this suit is to advertise to the world that your client is the inventor.

MR. HEMMINO: I think not. I know that very often is tho object of suits, but I have in this case the strongest possible evidence that Mr. Condy is extremely well known as a good chemist and a good inventor, and that nobody who was actuated by a desire to get a really good articlo for the purpose of disinfeeting would buy from anybody but Mr. Condy. He therefore has the right to say, "I want to tell people that I am the man who invented this, and I have a right to the benefit of any reputation that belongs to me." Whether he exaggerates the value of that reputation does not matter; be that large or small, he has a right to go into the market, and say, "Buy my goods instead of those of somebody else, because I am the distinguished chemist who invented these things, and who is

known as a distinguished and able chemist." Ho has also a right to prevent anybody else selling these goods under the same name, or in such a way as to lead the public to believe that the goods sold are made under the superintendence of this scientific and gifted chemist. The style which Dr. Mitchell has adopted of "The Condy's Fluid Company," has a tendency to suggest to the public that Mr. Condy has something to do with

LORD JUSTICE BAGGALLAY: Does "Condy's Fluid Company" mean anything more than a company for the sale of Condy's

MR. HEMMING: It suggests a great deal.

LORD JUSTICE JAMES: Ho does not take the name of "Condy,"

but he takes the name of "Condy's Fluid."

Mr. HEMMING submitted that that was the point which arose in the case of "Cheavin v. Walker," as to the Patent Filters, in the case of the Singer Sewing Machine Company v. Wilson as to the sewing machines, and in the case ss to Minton's Tiles, which was decided by the House of Lords. which was decided by the House of Lords. [The learned counsel referred to these cases at great length.] Of course, after the decisions in those cases, he could not dispute that when a name was well known as designating a particular manufacture, other people making the same thing might call it by the same name; but he submitted that they had no right to make a different thing and to call it by the same name. only possible object with which the defendant, Dr. Mitchell. could have adopted the style of "The Condy's Fluid Company" instead of his own name, was that the public might be in some way deceived, and that he might benefit by the uso of Mr. Condy's name. He need not refer to the authorities which showed that a man could not even use his own name if he did it for the purpose of deceiving; that having been clearly settled in the case of Burgess v. Burgess, as to the anchovy sauce, and also in the case as to Day and Martin's Blacking. Clearly, therefore, Dr. Mitchell could not be entitled to use the name of Mr. Condy in the way he had. In the Singer sewing machine case the defendant had boldly put his own name on the machines he made; and that was the ground upon which the decision in that case was given; here Dr. Mitchell had done nothing of the kind.

LORD JUSTICE JAMES: What was decided in that case was a simple proposition of law, that a man cannot be charged with fraud unless he commits actual fraud or enables the person with whom he is dealing to commit fraud upon the ultimate purchaser. When a clear principle is established, the question is whether the defendant himself has made any false representation or done anything which enables the person with whom he is dealing to make a false representation to the purchsser. The question here, therefore, is whether putting "Condy's Fluid Company" on the labels is a false representation, or whether it

enables anyone to represent what is false.

Mr. Hemming submitted that it was not necessary to prove actual deceit, but only that it was calculated to deceive; and this the evidence abundantly proved. [The learned counsel

read the evidence in the case at some length.]

Mr. Bradford also addressed the court, and referred their lordships to the reasons given by Vice-Chancellor Bacon for his judgment in this case, his lordship having granted the decree mentioned by Mr. Hemming in the suit of Mitchell v. Coudy, which was not the subject of appeal, and having dismissed the bill in Condy v. Mitchell with costs. That order of the Vice-Chancellor he trusted their lordships would reverse.

Their lordships, without calling upon the respondent's counsel,

gave judgment in the case as under :-

LORD JUSTICE JAMES said it required some courage on the part of the plaintiff to bring such a suit at all, and after the Vice-Chancellor's judgment it was strange that there should be this appeal. The case had nothing whatever to do with any one of the cases the reference to which had occupied so many hours of the public time. Hero there were two partners, and what-ever might have been the origin of "Condy's Fluid" or "Condy's Ozonised Water," tho right to use those names as connected with the manufacture of those articles was the joint property of Condy and Mitchell. The latter had obtained his right by payment of a substantial money consideration, and the name "Condy's Fluid" was as much Mitchell's property as Condy's. The partners had subsequently quarrelled and the partnership had been dissolved. But the circumstances had not given Condy a right to the sole use of the name "Coudy's Fluid." Then each of the partners had set up soparate continuations of the business. The tree of the partnership, in fact, had divided

into two branches. Each partner had then a right to use all he reputation acquired during the partnership, to represent simself as the successor of the partnership, and to make a legitimate use of the trade name. One said, "I put up my own name." The other said, "Having a right to use the name Condy's Fluid,' I called myself 'The Condy's Fluid Company.' No right could accrue to the plaintiff unless he could show that after the dissolution of the partnership one-half of it was selling things made by the other half. There was no evidence of any new reputation having heen acquired by the plaintiff since the partnership. The Vice-Chancellor had pointed out clearly in his judgment that there was nothing in the defendant's acts to make the world think that what was done hy one partner was really done by the other. The appeal must be dismissed, with costs.

LORD JUSTICE BAGGALLAY was of the same opinion. At the end of the partnership the partners had an equal right to the name in questien. The style of the partnership had been "Bollmann Condy and Co.," and the plaintiff had set up under his own name as "H. Bellmann Condy." It was not necessary to cousider whether he could have been restrained from doing so; but he came with a very had grace against the defendant. It was an everyday occurrence for a firm to take its style from the article which they made and sold, and it was natural for a firm manufacturing "Condy's Fluid" to take the name of "The Condy's Fluid Company." It was impossible to contend that the plaintiff had any trade mark, and his case as originally made in his bill had not been made to rest ou that. It was to be regretted that the plaintiff had resorted to the method he had used to obtain evidence, and to what was, in fact, a contrivance to eatch the vendors of the article.

LORD JUSTICE THESIGER was of the same opinion. It had not been seriously contended that any right to a trade mark had been infringed. The facts would negative any such contention. It was admitted that the name "Condy's Fluid" did not import that the article was manufactured by Condy, but that by whomsoever made the article offered for sale was made of a certain composition. It was, therefore, incumbent upon the plaintiff to establish that a fraud had been practised upon him. He must show that the defendant, by toe use of a trade name, or by means of advertisements, had misled the public into the belief that he was selling as his own an article actually manufactured by Condy, and also that he did so with the intention of deceiving. That this was necessary was shown by the case of "The Singer Manufacturing Company v. Wilson" (2 "Ch. D.," 434). Here there was no evidence of such fraud. On the dissolution of the partnership, each of the partners had done a reasonable thing-Mr. H. Bollmann Condy took his own name, and Dr. Mitchell, who had conetituted the "Company," called himself "The Condy's Fluid Company." It might as well be contended that Condy should have been prevented from using his own name as that Mitchell should be prevented from using the name he had taken. He aggreed as to the averaging testing the same here. tho name he had taken. He agreed as to the unsatisfactoriness of the evidence. A good deal of it seemed to him not admissible at all. There was no satisfactory evidence to establish a fact which it was necessary for the plaintiff to establish—viz., that any reasonable person would have thought that the dofendant was representing to the public that the things he was selling wero manufactured by Condy.

THE SALE OF SODA WATER.

In our last number we briefly mentioned a case decided at the Selby Petty Sessions on November 12, in which Messrs. Cutting & Sons were prosecuted under the Sale of Food and Drugs Act for selling some soda water not of the quality required by the Act. The case was defended by Mr. Henry Glaisyer, LLB., instructed by the Chemists and Druggiets' Trade Association. We received a fuller report on the date of our publication, and as the matter is of considerable importance we now give an extended report.

Police Superintendent Gill, who prosecuted, stated that on September 11 he purchased of Mr. T. J. Cutting three bottles of soda water, for which he paid ninopenec. He told Mr. Cutting they were required for analysis. They were sealed, and one was sent to Mr. Alfred H. Alleu, the public analyst for the West Riding of Yorkshire, eee he retained in his own possession, and the third he left with Mr. Cutting. The analyst cortified as follows:—"The sample of sodn water was quite free from lead and other poieonous metals. The sample contained an amount of bicarbonate of soda, not exceeding about seven

grains to the pint. Regarded as an effervescent drink, the sample was perfectly free from objection, as a remedy it was deficient in soda; the amount of bicarbonate of soda in the soda water of the Pharmacopæia being thirty grains to the pint."

Mr. Glaisyer having called Mr. Gill's attention to that portion of the certificate which stated that as a beverage it was perfectly free from objection, inquired if he was aware there were

two kinds of soda water.

Mr. Gill replied in the affirmative, but said he asked simply for soda water.

Mr. Gill then called Mr. Alfred Henry Allen, the public

analyst.

Mr. Allen having explained the result of his analysis of the soda water as given in his certificate, was cross-examined by Mr. Glaisycr as to the different qualities of soda water, their constituent properties and their uses. Mr. Allen said as a heverage Mr. Cutting's soda water was free from objection. He, however, drew a distinction between soda water as a beverage and soda water as a remody. If he went to a druggist's shop and asked for a bottle of soda water he should expect to get the British Pharmacopæia preparation; that was soda water made according to the standard prescribed by the British Pharmacopæia, which required that there should be thirty grains of soda to the pint, or fifteen grains the hottle. If he asked for soda water at an hotel or place of refreshment he should expect to get an article prepared as a beverage with less soda in it. He had at different times examined one or two dozen samples of these one contained no soda, some had a small quantity, while others had the full amount. In answer to further questions Mr. Allen said that to his taste the large proportion of soda in the Pharmacopæia made it rather nasty as a beverage. In answer to a magistrate, Mr. Allen said that the sample simply did not contain the quantity of bicarbenate of soda officially ordered, and if a medical man sent a patient for soda water it was important the article supplied should pessess the proper quantity of soda.

Mr. Glaisyer: The summons does not treat this soda water

Mr. Glaisyer: The summons does not treat this soda water as a "remedy," but as an "article of food," and I contend that as such it is unobjectionable and contains a sufficient quantity of bicarbonate of soda. If Mr. Gill had asked for the Pharmacopæia preparation Liquor Sodæ Effervescens, he would have been supplied with it; but he asked for soda water, and he got soda water as usually prepared. There were two distinct kinds of soda water manufactured—one for medicinal purposes and the other to be consumed as a beverage. What was sold to Mr. Gill was soda water proper, and was an entirely distinct article

from the soda water of the Pharmacopæia.

Mr. Glaisyer then called Mr. Thomas John Cutting, who said that he had sold soda water for 28 years, during which time he had had no complaints, and his trade had increased. Dr. Todd was one of his customers, and he had expressed great satisfaction with it. Ho kopt the Pharmacopeia or medicinal soda water, but did not sell it unless it was specially asked for. He should not like to drink it regularly, as it left a disagreeable soapy taste in the mouth.

Mr. John Attfield, Ph.D., Professor of Practical Chemistry to the Pharmacoutical Society of Great Britain, examined by Mr. Glaisyer, said that from his experience of soda water there were three articles sold under that name. There was aërated water, which contained no soda at all; there was a second kind which was a mixture of aëratod water and bicarbonate of soda in varying quantity from two to eight grains to the pint; and there was a third kind known as the medicinal article or Liquor Sodæ Effervescens, also known as the British Pharmacopæia soda water. This was introduced into the Pharmacopæia that physicians might have a medicinal article. The official quality had a disagreeable scapy and alkalieo taste from the quantity of soda which was introduced into it. No. 2 is more or less scapy, and it was within his knowledge that the public objected oven to this. What the public required was a mixture of aërated water, with two or three grains of bicarbonate of soda to the bottle. When there was an excess of acid in the stomach No. 3 is the very thing that is wanted, but it could only be taken as a medicine. Of the three hottles of sodn water which Mr. Cutting sent him, under the seal of the police, one contained seven grains, and the other two olevon each of blearbonate of soda. There was much difficulty in mixing the blearbonate of seda, that it frequently happened the quantity would vary in a few bottles. He never found thirty grains in any but medicinal soda water. He quito agroed with what Mr. Allen had said. The medicinal water would be very deleterious if taken con-

stantly, weakening the action of the gastric juice. The chairman, after deliberating some time with Mr. Smith, said they had fully considered the case. They thought there had been less soda than there ought to have been, but having regard to the professional evidence they had decided to dismiss the case.

ALLEGED ADULTERATION OF PEPPER.

THE same defendants were then charged with having sold two ounces of cayenne pepper, adulterated with common salt and coloured with red ochre or some similar ferruginous material. The pepper was hought by Mr. Gill, on September 11, and Mr. Cutting was told for what purpose it was required. It was divided into three proportions, one being sent to Mr. Allen in a registered letter, one kept hy Mr. Gill, and the other was left with Mr. Cutting. The following ie a copy of Mr. Allen's certificate:—"The sample contained about 1½ per cent. of common salt. Common salt is often added to cayenne pepper to increase the brightness of the colour, and to prevent it from fading in the light. The sample was also coloured with a small proportion of red ochre or some ferruginous material. The above additions are not injurious to health. No other adulteratione or admixtures were detected." Mr. Allen, having repeated the result of his analysis, was cross-examined by Mr. Glaisyer as to the tests he had applied.

Mr. Allen said he had applied the microscope and had also hurned the pepper and discovered from the ash that it was not pure. Asked if the crystals which he observed might not have been a natural chloride of potassium found in the pepper, said he believed them to be crystals of chloride of sodium, hut that certainly they were distinct from and outside the original structure of the pepper. The proportion of oxide of iron he had found was about '1 per cent., or only ahout one in a thousand. He did not think this could he due to rust from the mill in grinding, as that would have been hrown, and what he observed was red. Asked if he would have recommended a prosecution in this case. Mr. Allen frankly replied he should not, and on this answer the magistrates eaid they could not do other than dismiss the case. They refused, however, to allow costs to the defendants.

Mr. Francis Taylor, chemist, of Selby, was also summoned for selling as soda water water aërated with carbonic acid gas, containing no eoda.

Mr. James Grayson, solicitor, of York, appeared for the defendandant and urged that aërated water was well-known to the public and constantly sold as soda water.

The Bench fined the defendant 2s. 6d. and costs.

QUININE PILLS.

On Nov. 20, at Wedneshury, before J. Spooner, Esq., stipendiary magistrate, Henry V. Jessop, chemist, Market Place, Willenhall, was summoned under the Sale of Food and Drugs Act, for having, on September 10, eold "a certain compounded drug, to wit, quinine pills, which were not composed of ingredients in accordance with the demand of the purchaser."

A youth named Henry Constable, who is engaged by the inspector under the Act named, said that on the day mentioned in the summons he went to defendant's shop, and presented a piece of paper and purchased some pills. Ho had not got the original paper, as that was kopt hy the person who served, hut he took a copy of the writing upon it, which was as follows:—"Pil. quinia, B.P., 12 pills." On getting outside the shop he gave the hox containing the pills to Samuel Toy, who was waiting outside. On heing told that he might question the witness, defendant said the pills were not served by him, hut by his assistant, who made them, and who had been with him for five years. The pille were compounded oxactly according to the British Pharmacopæia.

Samuel Toy, assistant to Mr. Horder, said he received the pills from the last witness. He took them hack into the shop, told the assistant they had been hought for analysis, and gave him a third part of them, ecaling up the remainder in two

eeparato boxes, and afterwarde giving the latter to the inspector.

Mr. J. G Horder, inspector under the Act, deposed to receiving these samples and passing one of them over to Mr. E. W. T.

The latter gentleman was sworn, and read the following certificate, which he drew up after analysing the sample which he of 3 grains, but the pills average 4.65 grains, and therefore tho percentage of sulphate of quinine in the mass is only 38.55, instead of 75 as ordered in the Pharmacopeia." He eaid the fact for the prosecution was that the pille were not made strictly

according to the form of the British Pharmacopæia.

Mr. Spooner: There is some quinino in them. Mr. Jones: There is about one grain short per pill.

Mr. Spooner: Here is a paper which asks for a box of quinine pills. It does not say how much quinine there ehall ho in them.

Mr. Jones: But the "B.P." means that they shall be compounded in accordance with the British Pharmacopæia.

Mr. Spooner said if there was any quinine in the pills he was not hound to state the quantity. The case did not come within his jurisdiction. If there was any quinine in the pills it was quite sufficient for him.

Mr. Horder: The summons is issued under the 7th section of the Act, which says, "No person shall sell any compound or drug which is not in accordance with the demand of the purchaser." In this case the purchaser asked for quinine pills "B.P.," or iu accordance with the British Pharmacopæia.

On the suggestion of Mr. Spoouer, Constable was re-called,

and in reply to a question from the Bench whether he asked for "B.P.," he eaid he simply gave the paper.

Mr. Spooner said he should not convict, "B.P." might mean anything. He would grant a case if the inspector liked, hat he would not deal with it, as he did not think what had been proved was sufficient to warrant a conviction. At the same time ho would advise the defendant not to sell quinine pills that were not compounded in accordance with the formula of the British Pharmacopæia.

The Defendant: I should just like to eay that it does not matter, according to the Pharmacopoia, if there is only a quartor

of a grain of quinine in a pill.

Mr. Spooner: Some people may want a grain, and some

people may want more.

Mr. Horder said the fact was that people would have to take two of defendant's pills to get as much quinine as there ought to be in one.

Mr. Spooner: They have to take ten pills instead of five.

(Laughter.)

Mr. Jones stated that he wrote out the note, which was in the ordinary form of a medical prescription.

The summons was accordingly dismissed.

AGRICULTURAL SEED ADULTERATION.

Eight years ago an Act of Parliament, called the Adulteration of Seeds Act, was passed with a view to putting a stop to the dishonest practices then rife. It appeared that certain men made it their business to collect worthless seeds which resembled those used in agriculture, and to kill these eeeds hy heating them in a kiln. The dead seeds were then sold for mixing with more valuable articles. The fraud was very difficult to detect, hecause, of course, the sceds when sown did not produce anything, and the failure to grow could always he explained by natural causes. For a time the severe penalties imposed by the Act proved deterrent. But recently it has been discovered that these frauds are being practised to a larger extent than ever. Some of the leading seed merchants, on discovering this, organiecd an inspection to find out how far tho practices had spread, and to prosecute the offenders. Tho inspection is finished, hut the report ie not yet puhlished. A prosecution, however, which we report helow, has been carried to a successful issue, fines and costs to the gross amount of 15l. 5s. having been inflicted. We believe this case is but the first of a seriee.

On November 26, at the Mansion Honso, Mr. Thomas Strangeways, a eeed merchant in Mile End, was summoned hefore tho Lord Mayor for an infringement of the Adulteration of Sceds Act, 1869, in having, with intent to defraud, sold killed seeds, or seede in which the vitality or germinating power had been destroyed by artificial means. Ho pleaded "Not Guilty." Mr. Besley, harrister, conducted the prosecution; Mr. Walter Beard, solicitor, appeared for the defence. Mr. Besley, in opening the case, said the inquiry was the first which had been instituted under the Act in question. The practice of adulterating seeds was not only fraudulent, but highly detrimental to agriculture, received:—"The eample, if intended as 4-grain pills, contains and the statute was passed to repress it hy more effectual laws 1.21 graine of eulphate of quinine too little, viz., 1.79 inetead than those previously in force. By it killing or dyeing seeds

was prohibited, as was also the sale of such seeds, and for the first offence the penalty imposed was not to exceed 51., and for the second or any subsequent offcace, 50l. or under. The procoodings under the Act inust be taken within 21 days, object of killing seed was that it saight act grow and betray its worthless character, for were it to grow the farmer would at ouce know that he had been defrauded, and that what he had paid 60s, a bushel for, believing it to be turnip or some such seed, was actually composed of 50 per cont. of weeds or spurious seed. On the other haad, if undiscovered, it would be sown, and its failure would be attributed to natural or nnavoidable causes. Alexandor Francis deposed that on Octobor 12 ho saw a man named Chapmaa ia Mark Lane, and was shown a sample of seven sacks of killed charlock seed. The price was 6s. 6d. a bushel. Witness arranged to purchase the lot and to receive it on the following Thursday. On October 29 he met the defendant at the seed market in Mark Lane. The defendant pulled him by the coat and he followed him into the street. He said, referring to what Chapman had arranged, he had brought up the seven sacks that day. After some conversation he produced an invoice in which the seed was described as "old charlock." Witness seeing that, said they must have an understanding together that the seed was not to grow, because if it did, according to that invoice, he had nothing to fall back upon. The defendant clapped him on the shoulder, and said "between man and man" net a seed of it would grow, and that if it did he would put it in the kiln again for nothing, adding, "You know the state of the law. We canuot pat anything into writing, but you must trust me and keep your own counsel." The defeadant then gave him a sample bag of the soed, and another bag of a second sort, saying he had killed the latter seed for some persons in the country who had refused to take it because the bulk was not equal to the sample. He also said there had been expenses to the amount of 5l. incurred, but he did not wish to fall out with them, as they were good customers. Witness looked at the samples, and said it was larger in the grain than the previous sample. The defendant said it would do well if sifted, the larger mixing with swedes, and the smaller with turnips. The trade mark for killed seeds was three "O's" with a stroke through them. Upon seeing the defendant again, witness complained to him that the seed had not been delivered at Trig Wharf, according to arrangement. The defendant said he was very suspicious about witness, and he did not intend to part with the seed unless he got the money; that a van with the seed had been waiting, but as he did not come it was taken away. Witness then paid him 9l. 10s. in gold. The defendant asked him if he could do anything with the other seed, and witness promised to consider the matter. The de-fendant had previously said, "You can depend upon the seed being theroughly well done; not like Frith's. They shoet down the seed in the kilns, but don't scrape the sacks. I am very careful with this seed, and I always scrape the seams of the sacks myself with a small needle, so that there cannot possibly be a single seed to grow." Witness subsequently purchased other seed. Three pounds of turnip seed was usually sown to the acre. Twenty-eight bushels (the quantity of seed he purchased from the prisoner) would sow 460 acres, and 24 bushels about 430 acres. If dead seed was mixed in the proportion of half and half, that quantity would sow about 1,700 acres. Replying to Mr. Beard, he said he took up the matter at the request of Mr. Sharp, of Slcaford, in whose service he was previously. He believed he was buying killed charlock seed. He could tell such seed with certainty. He did not mean to kill the seed again. Mr. Charles Sharp, of Sleaford, deposed that he, with Mr. Burnett, promoted "The Adulteration of Seeds Act," and he employed the last witness to make the purchases in question. Charlock was a prolific seed, bearing a yollow flower. It was worth 3s. 6d. a bushel, and was crushed for oil and manure. When killed it had no proper agricultural purpose, nor was it an article of commerco. Swede turnip seed varied in price from 75s. to 84s. a bushel. Killod seed had no value whatever. It was only sold for mixing with seed of a higher value. If the seed was not killed it would betray the fraud. Ho had sown some of the seed in question, and it had not germinated. It appeared to be dried up. He had never hoard that it was used for bird seed. At this stage the defeadant, under his solicitor's advice, withdrew his ploa of "Net Guilty," and urged that what he had done was not with any intention to defraud. The Lord Mayor fined the defendant 5l. for the offence of killing the seed, and 5l. for that of selling the killed seed, and 5l. 5s. costs. The money was paid.

Who's Bond?

In the High Court of Justice, Common Pleas Division, the trial between James Hickisson and William Christian on the one side, and Bridget Sarah Murphy on the other, as to the right of making "Bond's" Marking Ink, came to an end on November 26.

One of the plaintiffs (James Hickisson) had married a daughter of the late John Bond, and the other had married the widow of a aephow of the late John Bond. She had previously sold her chemist's business to the defendant's husband, but she claimed that she had reserved her rights to the marking ink.

Mr. Justico Lopes, who tried the case without a jury, found that the defendant had made "Bond's" Ink without having the right to do so, and though the plaintiffs did not ask for damages he awarded 15l. to Hickisson and 10l. to Christian, and also granted a perpetual injunction against the defendants, with costs. The injunction ordered that a writ of injunction issue to restrain the said defendant, and her workmen, servants, or agents, from using the word "Bond" in or upon any labels, or pedestals, or labels affixed to pedestals manufactured for or by her, and from in any other way representing the marking ink manufactured by or for hor to be "Bond's" Marking Ink, and from selliag the same or causing the same to be sold as "Bond's" Marking Ink, or from doing any act or thing to induce the belief that marking ink mannfactured by her or for her is "Bond's" Marking Ink or marking ink manufactured by the plaintiffs. The said action wasbrought for wrongfully and deceitfully using and imitating the plaintiffs' trade marks, and for an injunction, We, therefore, do strictly enjoin and command you the said Bridget Sarah Murphy, and your agents, and servants, and every one of you, henceforth altogether absolutely desist from using the word "Bond" in or upon any labels, or pedestals, or labols affixed to pedestals manufactured for or by you the said Bridget Sarah Murphy, or from in any other way representing the marking ink manufactured by or for you tho said Bridget Sarah Murphy to be "Bond's" Marking Ink, and from selling the same or causing the same to be sold as "Bond's" Marking Ink, or from doing any act or thing to induce the belief that marking ink manufactured by or for you the said Bridget Sarah Murphy is "Bond's" Marking Ink or marking ink manufactured by the plaintiffs, until our said Divisional Court shall make order to the contrary.

Witness, Hugh McCalmont, Baron Cairns, Lord High Chancellor of Great Britain, at Westminster, the twenty-eighth day of November, one thousand eight hundred and seventy-

Disposing of A Chemist's Business.

The case of Gilbert & Burdoe v. Wigginton came before the Brompton County Court on December 5. The plaintiffs were Messrs. Bickaell (Messrs. Hine, Gilbert & Burdoe), chemists and druggists aud agents for the transfer of medical and chemical businesses, 30 Old Jewry Street, Aldgate, and the defendant was Mr. Wigginton, lately carrying on business in Old Ford Row, Bow. The action was brought to try the right of plaintiffs to recever the sum of 12l., alleged to be due as commission on the transfer of defendant's business. It appeared that in June last the following advertisement appeared in several journals:—"Business for Disposal.—In a thickly-populated healthy neighbourhood, East London.—A geauine Ready-money Retail and Prescribing Business. Returns about 400l. Capable of increase. Openiag for Dentistry. Corner shop, nicely fitted and well stocked. Convenient house, good side entrance. Hold upon loag lease, at low rental. Satisfactory reasons for disposal. Address, 'Statim,' Barron & Harveys, Giltspur Street, London." Mr. Gilbert shortly after called upon defondaat, and offered to act as agent, stating that he had customers for such business on his books. Defendant then said he wanted 350l. for his business. Mr. Gilbert said, "Ah! but it has been advertised for 320l." Defendant then said, "Yes, but there is your commission." Subsequently it was agreed that plaintiffs were to have 5 per cent. on the first 160l., and 2½ per cent. on the second, the business being disposed of through their agency for 320l. to a Mr. Fairs, who now held it. Defendant contended that the plaintiffs were to get their commission from Mr. Fairs. Verdict for the plaintiffs.

Another Prosecution by the Apothecaries' Society.

On November 13, John Faull, chemist and druggist, White Abbey Road, Bradford, was prosecuted at the County Court by the Apothecaries' Society for acting as an apothecary without legal right to do so.

The witnesses called by the prosecution were as follows:-Leah Hayhurst, a married woman, deposed that ou May 29 Mr. Faull had prescribed and given her medicine for her child, who was suffering from bronchitis. The child died, but no attempt was made to prove malpraxis, the offence being in supplying the medicine.

Elizabeth Page stated that on July 28 Faull had prescribed

for her dangliter, who was suffering from diarrhea.

Samuel Hibhert deposed that Faull had given him medicine for a sick headache on May 25.

Charlotte Sykes said that Mr. Faull had given her medicine

for her haby; complaint not stated.

In defence it was nrged that the defendant had not exceeded

his rights or the customs of the trade.

The case was adjourned until the appeal in the case of Shepperley v. The Apothecaries' Society should be decided.

SCOTCH CHEMISTS FINED FOR SELLING SPIRIT OF WINE WITH OUT A LICENSE.

Ox the 11th inst., at a Justice of Peace Court held at Dunhlane, William Corson, chemist, Callander, for selling spirits of wine without a license, was fined 12l. 10s., but the Justices strongly recommended that the fine should be remitted entirely.—Gilhert Farie, chemist, Callander, was charged with a similar offence, as also with selling methylated spirits without a license. He was fined 12l. 10s., for each offence, with a recommendation that the fine applicable to the second offence should be remitted .- Walter Thomson, chemist, Donne, was also charged with selling spirits of wine without a licensc. He pleaded not gnilty. At the conclusion of Mr. M'Kenzie's address for the prosecution, Mr. Camphell, of Inverandoeh (who, with Mr. Stirling, of Kippendavie, occupied the bench) remarked to the effect that Mr. M'Kenzie had made ont his case, whereupon Mr. Gavin, who appeared for the defence, declined to address the court, on the ground that the ease had been prejudged. It was explained by the court that no judgment had been given by them, that they were ready to hear any argument which could be adduced by Mr. Gavin, but that gentleman still declined. The respondent was fined 12l. 10s., with recommendation that the penalty be remitted as far as possible.

BANKRUPTCIES AND LIQUIDATIONS.

W. B. Anlinoton, Chemist, Weymouth Street, Portland Place. This case came before the Court on the 11th inst. The dehtor has petitioned for the liquidation of his affairs, and Mr. Brough said that he was instructed to apply for the appointment of a receiver and manager of the estate, and for an interim injunction staying further proceedings at the suit of certain creditors. The total dehts were about 2,000l., of which about 1,200l. were unsecured, and the assets consisted of stock, furniture and effects, and the goodwill of business, the value not yet heing ascertained. Mr. Wntts, a creditor for 300l., was proposed as receiver and manager, the nomination heing supported by creditors for 878l. Mr. Registrar Pepys made the appointment, and granted an interim injunction.

BENNETT BROTHERS, Chemical Mannfacturers, Hawkeshury, Wilts.

THE dehtors, William Weston Bennett and Alfred Bennett, carrying on husiness in co-partnership as nhove, under the style of the Hawkesbury Alum Company, and described also as of 22 Leadenhall Street, general merchants, have petitioned for the liquidation of their affairs; and Mr. E. C. Willis applied to the Court last month for the appointment of Mr. II. T. Wilde, accountant, Moorgate Street, as receiver of the estate, and for an interim injunction restraining proceedings of creditors. The liabilities were about 2,500l.; and Mr. W. W. Bonnett, in an affidavit made hy him in support of the application, stated the approximate value of the assets at about 3,000l. This estimate was exclusive of their share in the works at Hawkeshury, hut

included a claim against the Thames Chemical Company (Limited) for 560l. or thereabouts, to recover which they had recently brought an action, which had been referred to the arbitration of Mr. William Wilson, of Jubilee Street, Mile End Road, ehemist. A portion of the assets consisted of furniture and effects, and a share of 35-84ths of the concern carried on at Hawkesbury. The furniture, goods, and effects were valued at 100l., and the share in the Hawkesbury Company at 1,000l., although the latter might prove to be of greater or less value, according to the result of the experiments shortly to be carried out, and which it was anticipated would turn out very successful. Various jndgments and executions had hecu levied against the debtors' share in the Hawkesbury property, and it was necessary that the proceedings should he restrained. Mr. Registrar Murray appointed Mr. Wilde to the office of receiver, and granted an interim injunction. The following are in the list of ereditors :-

		£ s.	2
M. F. Van Swyndregt, Sugarloaf Court, E.C			
W. T. Bennet, 22 Leadenhall Street		286 17	9
W. Candenn & C. 151 Bladennan Street		275 18	2
W. Caudery & Co., 151 Fenchurch Street		250 0	0
W. T. Scott, Marshgate Lane, Stratford.		200 0	0
D. Roberts, 57 Bishonsonte Street Within		150 0	0
Pickford & Winkfield 1484 Fenchusch Canada	• •		
B. Jacob & Son, 485 New Cross Road		150 0	0
E M Carbb 11 D New Cross Road		130 1	0
E. M. Cauhb, 11 Paneras Lane, E.C.		100 0	0
T. Bennett, 22 Leadenhall Street		87 10	0
A. Hughes, 2 Moorgate Street Buildings		82 0	0
J. Serutton 9 Gracechurch Street			
Sir Charles Price & Co., Upper Thames Street		75 0	0
William Hant & Come West I hames Street		68 19	8
William Hunt & Sons, Wedneshury		67 4	6
Stamford & Seaward, 41 Bishopsgate Street Within		51 13	0
- Crowe, chemist, The Hollies, Lower Clapton		50 0	6
The Oriental Banking Corneration			
The Thames Chemical Company (Limited)	• •	41 7	10
Dr. Paral 100 Farral Company (Limited)		35 0	0
Dr. Paul, 106 Fenchurch Street		35 0	0
J. Glanville, 15 Great St. Helen's		25 0	0
- Keen, 28 Stanley Street, Pimlico		17 0	0
W Meare Jack's Coffee House Mark Lane	• •		
Davis Spackman & Co. 4 Titals Warms Street		13 0	0
Davis, Spackman, & Co., 4 Little Tower Street		10 16	8

Separate Creditors of Mr. Alfred Bennett.

T. Bennett, 22 Leadenhall Street	 	 	200	0	0	
- Hughes, Bromley, Kent	 	 	20	0	0	
Miss Sturt, Bromley	 		26	0	0	

The separate ereditors of Mr. W. W. Bennett are for small amounts.

On November 21, Mr. Willis, on behalf of the dehtors and receiver, applied for the continuation of the interim injunction pending the liquidation. Mr. Lee opposed on behalf of Mr. D. Roherts, of 57 Bishopsgate Street Within, who had recovered three judgments and issued execution against the property at Hawkeshury. Another claim being set up the sheriff was ordered to sell the dehtor's interest in the property and pay the proceeds into court; and Mr. Lee submitted that Mr. Roberts would be prejudiced if he were not allowed to proceed in the interpleader issue. After hearing Mr. Willis in reply, his Honour said that the object of the injunction was to protect the property and he must continue it. Injunction enlarged accordingly.

T. W. Fenwick, Chemist and Druggist, Stamford.

This case was recently brought before Mr. Registrar Brougham. The adjudication was made in March, 1875, and the Controller ' reported the trustee to the Court for neglect of duty in not furnishing a certified copy of his estate-book due ou April 18, 1877, as prescribed by the Act and Rules. Ou the case being called Mr. Aldridge, the official solicitor, said that since the proceedings were taken the trustee had complied with the requirements of the Controller, and paid the costs. His Honour made a note accordingly.

J. H. D. Jenkinson, Chemist, Shoffield.

A SINOULAR case disclosing some interesting points in reference to trusteeship in liquidation came before the Judge of the Sheffield County Court on November 15. The facts of the

order should be made on Mr. F. E. Leggoe to bring in his accounts as receiver and manager of the estate, and also as trustce in the matter of the proceedings; also to file his bill of costs as such receiver and manager and trustee, for the purpose of the same being taxed by the taxing officer of the Court, and that Mr. Leggoe be ordered to pay the costs of this application. On May 8, 1876, Mr. Jenkinson had filed a petition in that

Ceurt for the liquidation of his affairs, and on the same day Mr. Leggoe was appointed the receiver and manager of the Of course on his appointment Mr. Leggoe made the usual affidavit that he would perform the duties devolving upon him by virtue of the office according to the provisions of the Bankruptey Act of 1869, and should pass his accounts as such manager and receiver at the time the registrar should direct. The first meeting of creditors was held on June 2, 1876, and Mr. Leggoe was continued as trustee to act under the committee of inspection. That committee of inspection consisted of Mr. Francis Richardson, of the Sheffield and Rotheram Bank; Mr. Earle, accountant; and Mr. John Unwin Wing. They were to fix the amount of remuneration to be paid to the trustee. He might say that committee had never fixed the amount of remuneration, but he believed Mr. Leggoe relied upon some memerandum that he get the debtor to sign when he came to a standstill, and would not get along in the proceedings. He then proceeded to read au affidavit which had been filed by Mr.

His Houour: Has this estate been realised?

Mr. Clegg answered that it had paid a dividend. He believed everything had been closed, and the trustee released, but the solicitor's hill had not been paid. At the first meeting of creditors it was resolved that if the estate were sold as a whole it might be on such terms as to cash and credit as the committee might deem desirable. In the affidavit of Mr. Jenkinson the opening paragraphs were simply formal, and referred to the date of the filing of the petition and the appointment of Mr. Leggoe as receiver and manager, the holding of the first meeting, and his appointment as trustee. Some of the creditors at the first meeting stated that they would be willing for the debtor to have the estate at such a sum as would pay a composition of 5s. in the pound, together with the payment of all costs incident to the proceedings. Debtor entered into negotiations with Mr. Leggoe for the purchase of the estate on the terms propesed. Mr. Leggoe informed the debtor that his charges as receiver would be about 100l., and as trustee about 50l.; the solicitor's charges were 50l. 6s. 7d., and upon that representation the debtor agreed to pay 200l. in discharge of such charges, and signed an affidavit to that effect. Debtor had no advice before signing the memorandum.

His Honour: What value do you attach to a memorandum

signed by a debtor?

Mr. Clegg said he attached none, but Mr. Leggoe seemed to think that the debtor having agreed to certain terms, it was not necessary to consult either the court or committee of inspeccharges were in oxcess of the amounts allowed before the Bankruptcy Act, and the debtor objected to a number of the charges in the bill. Tho account was in some respects a remarkable one. He dared say his Honour had occasionally gone to London and might possibly have gone to Birmingham, but the receiver put down :- "Exponses to Birmingham five guineas"-that was money actually paid for his going to Birmingham on July 6, and then on the same day they had ten guineas put down for his going to London. He found in the same account, "receiver's cheques, preparing of statements, &c., including stamps, printing, extra notices, notices in local papers, and expenses of closing estato, 100l." He did not see what a receiver had to do with the expenses of closing an estate. A little lower down there were trusted's charges, 50l. Then followed one of the most extraordinary charges he had ever seen in a receiver's account. It was "John Unwin Wing's charges, fifteeu guineas"—Mr. Wing being one of the committee of inspection. What right Mr. Loggoc had to pay all these sums of money he did not know, but at any rate some of those charges were what they complained of. They had no particulars whatever as to how the 100l. was arrivod at, neithor had they any particulars as to the 50%, the charge made as trustoe. Mr. Leggoe had filed an affidavit in answer to this, and in the 6th parngraph he said that hetween June 28, 1876, and July 3, a period of five days, he had several interviews with Jenkinson as to the carrying out of the resolutions passed at the meeting. Mr. Leggoo added that there was no necessity for his romuncration to be fixed by the committee of inspection. He submitted that Mr. Leggoe should have submitted his account to the committee of inspection for them to decide what was the preper amount of remuneration to be paid to him. On July 3 the debtor called at his (Mr. Leggoe's) office, and signod the following memorandum:—"Sheffield, July 3, 1876. To Mr. F. E. Leggoe, trustee. Ou condition that you allow Mr. Ryland to have a bill of sale on Fargate, and my

father a bill of sale on Duke Street and Stafford Road, I agree to allow you to continue and collect all book debts and receive the proceeds of stock and fixtures now in George Street towards the costs, 100l. receiver's charges, 50l. trustee's charges, 50l.6s.7d. solicitor's charges, and to pay all other costs and charges ont of pocket, and then to pay balance to me." Debtor had not then got his discharge, and he submitted that that letter or memorandum was of no value whatever. It appeared to him a matter of very grave consideration that a trustee sheuld ask a debtor to sign a memorandum of that kind. The trustee was entitled to his fair and reasonable charges as allowed by law, and as a rule those allowances were very liberal indeed. It appeared to him that Mr. Leggoo must have known and felt at the time he got this memorandum signed that his charges of 100l. as a receiver and 50l. as a trustee were certainly such amounts as the registrar would not have allowed. He submitted, further, that Mr. Leggoe had no power whatever to make any arrangement of the kind with Mr. Jenkinson as to this sum to be paid.

His Honour remarked that the question was, Could the debtor release the trustee from his obligations to the Conrt for his

acts?

Mr. Clegg submitted that the receiver was an officer of the Court, and as such was bound to bring his accounts there whatever the debter might say. But the trustee in his affidavit stated that the debter was still indebted to him in the snm of 55l. 3s. 2d.

His Honour: How was it the creditors gave the trustee his

release without settling these matters?

Mr. Barker (instructed by Mr. C. G. Esam, for the trustee): They passed a resolution agreeing to accept a composition of 5s. in the pound, and they got it. The creditors are not interested in this application at all.

His Honour: And subject to that they gave back the estate

to the debtor?

Mr. Barker replied that was so, and added that Mr. Leggoe had commenced an action against the debtor for the recovery of this amount. There had been some negotiations on the subject, but the action was still pending for the recovery of 55l. 3s. 2d.

Mr. Clegg said Mr. Leggoe had since received some of the proceeds of the estate, and, further, he had acted as trustee since he was released as trustee. He had actually sued persons in that Court and recovered verdicts against them—that was

since his release as trustee.

Mr. Barker said this was not a question affecting the creditors, but was one between man and man. An action had been brought against Jenkinson, and when he saw he had no answer to it, he sought by adopting this course to get an order which he could not obtain in the action. After the document was signed Mr. Leggoe did collect and receive book dehts in relation to the George Street husiness. He had paid various sums out of pocket, and now required 55l. 3s. 2d. to which he was entitled. On December 15 of last year the account was sent to Jenkinson, and from that time until July of this year when he was sued for the amount, he never contended that he had been overcharged. It had been suggested that Mr. Jenkinson had been trapped, but he was not like an infant, he was a man, with a solicitor to advise him, and could have obtained that advice had he required it. He submitted that it would be n great hardship towards Mr. Leggoe if the document were set asido which gavo him the remuneration the committee of inspection, now no longer existing, could have nwarded him.

Judgment was delivered a week later, when the Judge (T. Ellison, Esq.), after stnting the resolutions arrived at by the ereditors, said that the committee resolved that the estate should be sold to Mr. Jenkinson, the debtor, for a sum equal to 5s. in tho pound, and ou June 28 the ereditors in general meeting resolved that the offer of the debtor to purchase the estate for 5s. in the pound on payment of all costs of the liquidation, should be accepted. The resolutions passed by the committee were thereby coufirmed, provided that the bills of sale given as security should be deposited. They discharged the debtor, elosed the estato, and released the trustee. In the meantimo it appeared that the trustee and Jenkiuson had made certain nrrangements. Mr. Barker had, on the part of Mr. Leggoe, objected that the motion was not made in the interests of any creditor, and to a certain extent this was so, but whatever might be the arrangements between Leggee and Jenkinson, and whother it was one that could be effectually carried out against Jeukinson, he did not think mattered to the motion. It might be that Jenkinson would get rid of that arrangement; but what his Houour had to deal with was, that the motion was founded en-

tirely on the statutory right of the creditors to have the trustee's accounts taxed and audited in the usual way, and to consider whether there was anything in the case which differed from an ordinary ease of liquidation. When he heard the resolution he came to the conclusion that they were resolutions which, under the Act of Parliament, had been come to by the creditors, and had received, as being a scheme for the realisation of the debtor's estate, the approval of the Court under the Act. But if it did not extend to liquidation, what right had the ereditors to say that the estate should be sold for 5s. in the pound in ease any creditor who was not at the meeting objected? The right of the ereditors was to have the whole of the estate divided amongst them, and the creditors could pass resolutions for that purpose, and have them approved by the Court; but there was no other power to take the right, and having every sixpence administered to their benefit. This being so, it was simply a case of common liquidation. Under Rule 5th of 1871 all bills and charges of auctioneers, brokers, &c., in matters of liquidation, should be taxed by the proper officers of the court, and no payment should be allowed without due proof of such taxation. It was, therefore, a matter of ordinary course for him to order this motion to be granted; the costs must be taxed in the ordinary way. It might be that the proceedings might be carried out by the debtor and trustee; but it was also possible that a creditor might oppose the proceedings, as never having received the approval of the Court. He should deal just the same as if these resolutions had never been granted at all. His Honour, in conclusion, granted the order prayed for, but, in answer to Mr. Clegg, said that he could not go beyond the notice of motion.

CHARLES LANGFORD, Chemist and Druggist, King's Lynn.

The first meeting of the ereditors of this bankrupt, adjudicated on October 26, was held on the 14th inst. at King's Lynn. Proofs of debt amounting to 4,000l. were put in, and resolutions come to appointing Mr. Edward Moore (Moore & Wallis), accountant, 3 Crosby Square, London, E.C., and Mr. William B. Whall, accountant, Market Square Chambers, King's Lynn, joint trustees, with a committee of inspectors, consisting of Messrs. Arnold Baiss (Baiss Bros. & Co.), Charles Harvey (Barron, Harvey & Simpson), C. R. Harker (Langton, Harker & Stagg), wholesale druggists, London, and Mr. L. W. Jarvis, banker, King's Lynn. The proceedings were by special resolution transferred to London. The statement of affairs filed by the bankrupt is summarised as follows:—

Liabilities.

Unsecured creditors	••	£ 1,026 35		£ 3,691	5	d. 3
Creditors for rent, rates, taxes, and	wages		 	4	0	0
				4,596	14	9
Asse	ts.					
				£		d.
Stock-in-trade estimated at				1,500	0	0
Book debts, estimated to produce				850	0	0
Cash in hand				5	0	0
Firmiture, estimated to produce		• • •	• •	250		0
				2,605	0	0

The following is a list of creditors unsecured:-

The form wing is to the		 D 62 MM 1. 6					
				£	8.	d'.	
Baiss Bros		 	 	621	2	8	
Langford, Wm., Lynn		 	 	480	0	0	
Herring & Co		 	 	326	3	8	
Langton, Harker & Stag	gg	 	 	261	0	3	
Barron, Harvey & Co.		 	 	318	14	8	
Shaw, Thompson & Co.,	Hull	 	 	184	15	5	
Wrangham, R. H., Hull		 	 	145	0	0	
Sutton & Co		 	 	117	0	0	
Pileher & Co		 	 	115	-0	0	
Blandell, Spence & Co.,	Hull	 	 	122	0	0	
Taddy & Co		 	 	96	0	0	
Beanfoy & Co		 	 	92	9	1	
Price & Co		 	 	89	12	8	
Sissons Bros., Hull		 	 	41	2	6	
Viekers & Co		 	 	52	19	11	
Bnrnett & Co		 	 	59	ូន	3	
Wm. Mather		 	 	25	14	7	
Proctor & Bevington		 	 	24	0	0	
Hamilton & Co		 	 	13	0	8	
Gorringe & Son		 	 	25	8	9	
Snmmers & Son		 	 	10	9	6	
S. Maw, Son & Thomps	on	 	 		10	1	
W. & T. Jones & Co.		 	 	30	14	3	
W. S. Champion		 	 	20	0	0	
Beatson & Co., Rotherl	am	 	 	5	19	C	

				C . 2
Smith & Son, Norwich				£ s. d.
Davis				10 7 6
Varillay & Co		**	• •	7 15 11
Tamon & Co	• •	• •	**	3 6 8
Villa	• •	* *	• •	7 13 2
71. 11	• •	* *		2 15 0
	• •			7 2 6
- Carpenter				5 15 5
R. A. Carter, Norwieh				2 7 1
J. C. & J. Field				2 12 0
R. A. Cooper				586
- Ibberson, Lynn				45 0 0
- Swann, Lynn				28 0 0
- Jermyn, Lynn				30 0 0
- Jones, Lynn				20 0 0
Ludyman & Sons, Lynn				20 0 0
- Fuller, Lynn				15 0 0
— Meal, Lynn				10 0 0
— Witt, Lynn				8 0 0
- Thew, Lynn				13 0 0
- Fayers, Lynn				8 0 0
H B. Phewright & Sons, Lynn				2 15 0
- Staunton, Lynn				2 0 0
Wickham & Holland, Lynn				3 0 0
Allen & Willis, Lynn			• • • • • • • • • • • • • • • • • • • •	26 5 1
- Botts, Lynn				1 10 0
W. J. Palmer, Lyun				0 14 0
,,	•••	• •	• •	0 11 0
Creditors pa	ertlii s	secure	7.	
•	9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Jarvis & Jarvis, bankers, Lynn				1,026 9 6
Value of seenrity				35 0 0

G. W. PHILLIPS, Chemist and Druggist, 43 Leather Lane.

The debtor had filed his petition for liquidation on September 18, and at the meeting of his creditors accounts were submitted, showing debts 1,131l. 18s. 1d., and assets, 432l. 14s. 2d. It was resolved that his estate should be liquidated by arrangement, with Mr. W. C. Harvey, accountant, 1 Gresham Buildings, as trustee, and the following committee of inspection:—Mr. S. J. Fowler, 54 Leather Lane, Mr. H. Leatherdale, 14 Old Jewry Chambers, Mr. C. Chatterley, 25 Old Jewry; Mr. Benjamin Biggs, of 3 Laurenee Pountney Hill, and Mr. Thomas Gates, of Hatton Wall. The following were returned as creditors:—

		£	s.	a.	
J. Phillips, Waterloo Place, Chatham	 	691			
Lister & Biggs, Lawrence Pountney Hill	 	175	17	10	
Hearon, Squire & Francis, Coleman Street	 	57	11	5	
Vogl Brothers, 5 Hart Street, Wood Street	 	31	8	6	
S. Fowler & Son, 54 Leather Lane	 	31		0	
Hudson & Chidson, George Yard, Aldgato	 	28			
W. & T. Jones, Sonthwark Street,	 	22		4	
T. & T. Gates, Hatton Wall	 	13		0	
Nelson, Dalo & Co., Dowgate Hill	 			4	
E. Gurr, 8 Great Bath Street, Clerkenwell	 	9	0	0	

The ease came before the Court on the 7th instant, iu connection with a proof for 691l. 3s., tendered by Mr. Jesse Phillips, of Waterloo Place, Chatham (the debtor's fathor), and which had been rejected by the trustee to the extent of 300l. Mr. Willis supported the proof; Mr. Henderson, for the trustee, opposed. The claim having been investigated, Mr. Registrar Hazlitt held that the creditor was entitled to prove for the 671l. 3s., being a deduction of 20l.

A. E. MARTIN, Birmingham.

An adjourned first meeting of the ereditors of A. E. Martin, 136 Broad Street, Birmingham, chemist and druggist, was held on November 22, at the offices of Messrs. Hawkes & Weekes, 14 Temple Street; Mr. William Jones presiding. Mr. Weekes represented the debtor. It was resolved to accept a composition of 1s. in the pound.

BUTTER ANALYSIS.—The prize offered by the Leipzig Pharmaeeutical Association for a trustworthy method of butter analysis has been awarded to Otto Hehner, F.C.S., Public Analyst for the Isle of Wight, and Arthur Angell, F.R.M.S., Puhlic Analyst for the County of Hants. As one of the stipulations of the Association, namely, that the successful essay should become its exclusive property, could not be fulfilled by Messrs. Hehner and Angell's method, it having been published some years ago, and as the examiners, Professors Heintz, Knop, and Kohlmann, yet wished to express their appreciation of the method, they presented the authors with the sum of 150 marks. Six ossayists competed, two from Germany, two from England, one from Austria, and one from Italy.



For particulars of Advertisements, Subscriptions, &c., please refer to the first page of Literary matter. An Index to the Advertisements contained in this issue will be found in the front portion of the Journal.

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SEE PAGE 39.

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FOR PARTICULARS OF

ANALYSED TEA ASSOCIATION,

And Opinions of the Press, See Page 49.





COUNTER PRACTICE.

ALTHOUGH the decisive encounter between the chemists and the apothecarics is again postponed, we are fairly entitled to claim a distinct advantage as the result of the proceedings in the Court of Exchequer on the 22nd of last month. To make this clear we may be allowed to point out exactly both the old and the new situation.

The County Court Judge at Nottingham having heard the evidence brought forward in the case of the Apothecaries Society v. Shepperley, decided to convict the defendant. The Chemists and Druggists' Defence Association, who were actually defending the action, appealed against the decision, and it thereupon fell to the Nottingham Judge to "state a case" for a superior court. When the case came before the Court of Exchequer it was therefore no longer a question of evidence, but a point of law. The Court of Exchequer was asked, in fact, to decide whether the County Court Judge had correctly interpreted the law in regarding the conduct of the defendant, Mr. Shepperley, on certain specified occasions, as an infringement of the Apothecaries Act.

Now, as Sir Henry James pointed out in the early part of his speech for the appellants at the Court of Exchequer, it is quite possible to regard the defendant's action in a sense as "acting or practising as an apothecary." In fact, a chemist and druggist who simply sells medicine, and who ucver even opens his mouth, acts to some extent as an apothceary. Such conduct as this even might bring him under the penal consequences of the Apothecaries Act, if it were not for the now well-known 28th section of that Act, which expressly exempts "all persons using or exercising the trade or business of a chemist and druggist, or who shall or may hereafter use or exercise the same," and stipulates that "they shall and may use, exercise, and carry on the same trade or business in such manner and as fully and amply to all intents and purposes as the same trade or business was used, exercised or carried on by chemists and druggists before the passing of this Act."

The crncial question, therefore, as we have all along maintained, was not, did the defendant act as an apothecary on the particular occasions cited against him, but did chemists and druggists act in such manner previous to the passing of the Apothecaries Act? The defence brought forward a witness who distinctly swore that they did. The prosecution made no sort of attempt to rebut this evidence, which, as we say, should have been conclusive, and the judge iguored it!

When the case came on last month before the Lord Chief Baron and Mr. Baron Cleasby, those learned judges saw from the first, at least we think they did, that this exemption clause was the keystone of the dispute. Anyone who will follow carefully their interruptions of Sir Henry James's argument will discover that this was uppermost in their minds. And when at last it became clear that Sir Heury James was determined to narrate with mest minute detail the complete history of the Apothecaries' Society, from the Dark Ages downwards, they cut him short by saying in effect, "All this is beside the question. What we want is evidence as to the rights chemists and druggists were in the habit of exercising before 1815." "If you can show," said Baron Cleasby, "going back as far as living memory does, that chemists have been in tho habit of dispensing over the counter, it would be very important." "If it should appear," added the Lord Chief Baron, "that in this case the defendant has done nothing more than every chemist and druggist in the kingdom has a right to do, then the judgment is wrong altogether." With this view the learned Barons ordered a new trial, on the understanding that it should be brought before them. The fact that Sir Henry James, for the chemists, eagerly accepted this proposal, while Mr. Day, for the apothecaries, as carnestly opposed it, was pretty satisfactory proof as to which side had gained an advantage.

The consequence is that the trial will now be reheard before a jury in the Court of Exchequer. The important evidence for the defence, which, as we consider, has not been sufficiently regarded, will be again presented, and will, no doubt, be allowed its due weight. And, finally, if it should occur after all that the decision of the Exchequer Court be against the chemists, the latter will have the chaace of carrying their case to the highest tribunal in the land, an opportunity which they would not have had if a decision had been given merely on the question of law.

It is much too early yet to be jubilant; but it is our boundon duty earnestly to press upon the trade the value of a cordial, liberal support of the association through whose exertions the chemists have been, and still will be, so powerfully represented. The case now being fought will be a historic one; its gravity as affecting the position of chemists and druggists is incalculable. Such being the case, the committee of the Trade Association, who theroughly recognise the responsibility of their position at this moment, have resolved that, come what may, the queetion shall be contested to the extremest limits of the law, or notil the

npothecariee shall choose to relinquish their pretensions. There is no empty brag about this. It is simply the resolution of meu who are capable of seeing that the present is an occasion when valour is the better part of discretion. The Trade Association has displayed an astouishing amount of energy and zeal during its short career, and it has shown what can be done with a moderate income if the executive is not afraid of spending. But the present enterprise is a great one. The association has undertaken to resist an attack which, if it could have been conducted on chemists in detail, as was intended, would probably have ruined numbers. In such a case the association must be supported.

The Pharmaceutical Council has again gone into committee on this question. This periodical event has ceased to excite much interest of any kind. The council, it is now evident, has quite as much as it can accomplish in arranging conversazioni and resisting a few women. It must save money because it hopes, according to its president, to provide for its declining years a comfortable little freehold home of its own-a healthy situation preferred, somewhere out of the way of all worry and turmoil. Like Macbeth the Pharmaceutical Council has a double trust and a double duty, first to the trade and secondly to the public. In both capacities it was bound to resist the dangerous claims of the apothecaries, and its own selicitor urged on a bold policy in reference to counter practice. But there were lions in the way. The doctors who come to the annual dinners might not like it. The defendant, if he had not infringed the law in this case, had perhaps done so on other occasions, an argument as relevant as it would be to prove that Mr. Shepperley's fifteenth cousin had married a chimney-eweep. We have always regretted that the council did not from the first co-operate heartily with the Trade Association iu defending the long established rights of chemists in regard to counter practice; but it is at least satisfactory to know that with or without their aid those rights will be defended ably and thoroughly.

ANALYSTS AND JOURNALISTS.

An editorial note was printed in our October number, under the title of "Analytical Discoveries," having reference to come tea analyses which had recently been published over the signature of Dr. Arthur Hill Hassall. Our remarks, no doubt, implied a question as to the genuineness of these analyses. We subsequently received a letter from Messrs. Hassall & Hehner's solicitors, requiring us to retract and apologise, or submit to an action at law. Conscious of having written in perfect good faith, we were not disposed to yield to this coercion. A law suit was imminent, and both sides began to prepare their "cases." Circumstances, however, occurred, which brought us into contact with our probable antagonists. The result of a somewhat long discussion was, that we were invited to examine for ourselves the analyses we had criticised, and new exporimente were conducted in our presence to prove that no two samples of one tea will yield precisely similar results. Messrs. Hassall & Holiner, having withdrawn all legal pressure, left us quito free to form and express whatever opinion we might arrive at. Thie enables us, with the utmost sincerity, to state our conviction that the evidence they offered us was more than eufficient to prove that they had conducted their investigation with perfect houesty; and we cannot, therefore, forbear to add our regret that any worde of ours should have supported a suspicion to the contrnry. Tho fact just eited, that variation of analytical results will be obtained from what ie practically the samo article, is an argument ngainet haety conclusions from such shifting data; and we further retain our opinion that the publication of an imposing eerics of decimal fractions is calculated at least to mystify an undiscerning

public. This, however, is not n question for the chemist. All that can fairly be demanded of him is, that he should fairly obtain his results and fairly publish them. We again repeat, in this respect, our unreserved confidence in the work of Messrs. Hassall & Helmer.

To these remnrks we willingly add the explanation of the analyses addressed to us by Messrs. Hassall & Hehner. They write as follows:—

In these analyses the amounts of theine, of mineral matter, and of sand differ no more than five-hundredths, sixhundredths, and two-hundredths of a percentage respectively. The amount of moisture in the compressed tea exceeds that in the loose tea by only 0.53, er about half a per cent, while the extractive matter in the compressed tea is 4.10 per cent. higher than in the uncompressed tea; so that the amounts of theine, of mineral matter, and of sand in the two nanlyses are practically identical, while the fact that both the moisture and extractive matter are somewhat higher in the compressed tea admits of a very simple explanation.

No two analyses made upon the same sample of tea could be expected precisely to agree Analytical chemistry is a practical science, and it is found impessible to obtain mathematically

exact results.

Some latitude is always allowed to the experimenter, and, as a rule, two such results may be said to be well in accordance with each other if they de not differ frem each other mere than

two er three-tenths of a percentage.

In food analysis an even greater margin is allowed, frem the nature of the substances and their preperties. Every chemist knows how readily ten and similar substances absorb moisture from the atmosphere, the percentage varying with the humidity of the air, and a difference of half a per cent. of moisture would easily be occasioned by even a short exposure in a loose package.

Between the taking of the samples and their analysis usually several days elapse, and in the present case no doubt the compressed tea retained in its firm mass a nearly constant quantity of moisture, while the loose tea lest a trifling amount. It must, moreover, be remembered that even the tea centained in the same chest is never absolutely uniferm in compesition, the top being more exposed to the atmosphere than the centre, and the finer and mere fragile pertions of the leaves collecting at the bottom of the chests, and yielding a larger amount of soluble constituents than do the unbroken leaves.

That the amount of extractive matter was higher in the compressed tea than in the loose tea is not only not a matter for astonishment, but exactly what should be expected. By the enormous pressure to which the tea is subjected many of the cells of the leaves containing the soluble constituents of the tea are ruptured, so that their contents can readily be dissolved by means of the boiling water used in the analysis, whilst it is a matter of extreme difficulty, if not of impossibility, to remove, by water alone, all extractive matter from unruptured tea. The extractive matter has therefore not been, as you appear to snggest, created by the squeezing; it has thereby merely been made more amenable to the action of the boiling water.

PROVINCIAL PHARMACEUTICAL EDUCATION.

In an address delivered at Glasgow a few evenings ago, Mr. Fairlie urged a revival of the interest in provincial pharmaceu tical education. He thinks the Pharmaceutical Society ought to provide some 600l. a year for this purpose, divided among, say a dozen centres. If the society has not got the money it should get it somehow. A very goed plan, in Mr. Fairlie's opinion, would be to pitch the costly Journal overboard, or rather make the members pay extra for that if they wanted it. Mr. Fairlie, as we gather from bis arguments, secms to consider that a duty devolves on pharmacists in this matter similar to that which the nation has in recent years recognised as due to its poer and helpless children. The difference lies here: In passing the Education Act the nation acknowleded the right of every Britishborn creature to exist. If all such are to exist, said the nation further, it will be good policy both for us and fer them that they be to some degree educated. The Pharmaceutical Society

en the ether hand, is by no means called upon to recognise the right of anyone to be a pharmacist: if it forced any into the trade it would be morally bound to train that person for the calling to whichhe was compelled. It is, in our view, injurious to the vigenr of the young men who enter the trade to teach them that they have the smallest right to expect any system of charity to aid them in their battle of life.

THE POSITION OF HOMŒOPATHY.

In a work recently published in Paris, entitled "De L'Hemocopathie et de ses Pregres," by Dr. Giraud, the author gives the fellowing as an approximate estimate of the success attained by homocopathy throughout the world:—

Count	ries	 	Phy- sicians	Phar- macies		Dispen- saries	So- cieties	Jeur- nals
North America			8,000	16	16	4	20	10
Germany .			600	15	8	10	11	6
England .			500	16	5	45	6	3
France			300	14	12	20	1	3
Spain			300	4	1	3	i .	
Italy			250	10		5	3	2
South America			250	8	2	25	2	2
Belgium .			150	4		8	1	1
Portugal .			110	5		6		i
Russia			105	10	1		1111	2

SECRET REMEDIES.

A German pharmaceutist, Mr. Edward Hahn, has lately published a compilation giving the results of analyses of over eleven hundred secret remedies and proprietary articles. The information supplied in this volume would be very useful and interesting to our readers, and it cannot be denied that they, above all others, have a right to know the composition of the articles they sell. In this view we have arranged with the author for the right to publish an English translation of this collection, which will of course be copyright. The series will be commenced in our next issue, and will be completed in the course of the year. The collection includes analyses of the best known English, German, French, and American specialities.

COPYING PRESCRIPTIONS AT HOME.

An American druggist declares that he lately received the following recipe, which bis customer explained bad been copied from "doctor's book":--

12 grains each of Lactate of iron
Citrate of iron
Strychnine
Sulphate of quinine

Make twelve powders. Take oue every four hours.

Asking first if the medicine was for a crocodile or a Christian, the druggist pointed out that it would be hardly necessary to make up all the dozen powders unless a family burying was in contemplation. The gentleman who copied the prescription now knows that citrate of iron and strychnine is not the same as the same articles separated. Even the apparently simple art of copying prescriptions requires some little previous training.

A PETROLEUM SENSATION.

A SEIZURE of a large quantity of petroleum in Birmingham last month necessarily attracted the attention of dealers, and probably more will yet be heard of it.

The Petroleum Act requires that a license shall be taken out in all cases where the oil gives off a vapour at less than 100 degrees, so that measures may be taken for its safety and proper storing

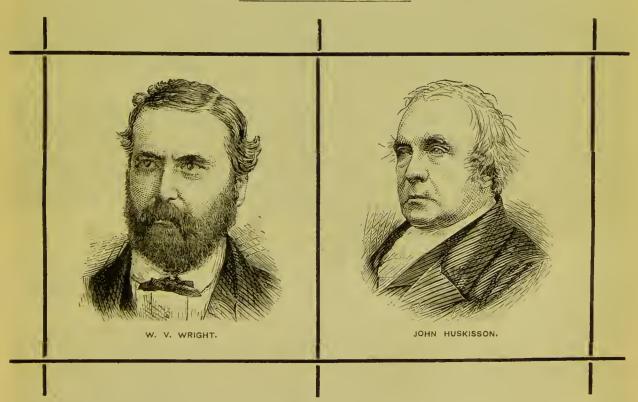
and disposal. Railway companies support the Act by requiring that consignors of oil of that quality must label it "Inflammable," and add their names and addresses. The railway rules likewise stipulate that the consignees after receiving notice must fetch the commodity away from the depôts within a few hours after receiving the notice. The penaltics for non-observance of these precautions may be made very heavy, and the convicting magistrates have the power to order the confiscation of all condemned oil.

There is a tendency in human nature to resist any Act of Parliament which at all interferes with our freedom, but in relation to this Act such opposition is a mistake. The Act should be supported by no one more than by the vendor of comparatively small quantities over the counter. Without any fault of his he may be, hy the cupidity of wholesale consignors at the place of shipment, subjected to penaltics and public exposure which may seriously damage him commercially, even if he (to say nothing of his customers) should have the good fortune to escape an explosion which may blow up his premises and perhaps himself.

Nearly a month ago a retailer of oil in Birmingham was charged with having supplied petroleum to a customer which had exploded in a lamp, injuring one person and setting fire to furniture. The oil was declared by the inspector to be inflammable at 85° Fahr., and the dealer was consequently fined. This petroleum had been drawn from a cask which the retailer had bought from "the agent" under the impression that it had

passed the 120° test. Indeed, the cask was so labelled. The declaration on the label was "Royal Daylight, of 120° test." Some 20 gallons were seized, and afterwards confiscated by the magistrates. It became an easy matter for the authorities to trace the bulk, and this led to the seizure ou the railway premises of no less than 12,000 gallons, contained in 325 barrels, of which the market value was from 500l. to 600l.

Of course it was promptly assumed that perfidious America was the originally guilty party, and a large amount of very good indignation was wasted in various quarters. The extraction of the benzolina is a process which involves a certain pecuniary outlay, and the benzoline when extracted fetches but half the price of petroleum. Benzoline incorporated with the crude oil is therefore a much more profitable commodity than the carefully refined petroleum. This was assumed to have been the case here, and the "Royal Daylight" fell under a thick cloud. The brokers for the importers wrote to the Birmingham papers to express their confidence that there had been a mistake, and the result proved the accuracy of their judgment. A week or two later the Watch Committee had to order the oil to be given up to its owners. The borough analyst had tested it, and he found the flashing point to be between 101° and 105°, the error into which the inspector fell arising, it is said, from the use of a close test justead of an open one. Such astounding carelessness or ignorance can hardly he allowed to end here. The inspector, we imagine, will have to exorcise his nswly-acquired knowledge on a more limited scale than heretofore.



It will probably be pleasing to some readers to have a memorial of two familiar faces lost to us during the year now passing. Mr. Huskisson was some years ago the head of a chemical firm whose history is almost the history of the science itself. Born away back in the previous century, Mr. Huskisson by no means let himself remain there. His firm was always foremost in the practical development of scientific ideas, and as far back as the memory of man will go the name of Huskisson has always been a warranty in regard to chemicals. The reputation of the house will certainly not diminish in the hands of the present accomplished principal, Mr. Henry Owen Huskisson, the nephew of the gentleman whose portrait appears above. Mr. W. V. Wright, whose death we have had to announce even more recently, was in all respects a nineteenth century man. His vigour and self-reliance created a business with surprising rapidity, and though he died long before old age, the firm which he raised from nothing to the very front rank, seems for many years to have lest all the traces of newness, and to have indicated its youth mainly by its energy.

PRESS OPINION.

THE COUNTER PRESCRIBING CASE.

The Medical Examiner remarks "that if the 'custom of the trade' is to guide the decision, the chemists will certainly get the best of it. There are, however, among various fraternities, many customs more or less contrary to law, but which are nover accepted as excuses for statute-breaking. If, as we believe, the law distinctly forhids chemists to prescribe, it would seem rather abourd that the violation of an Act of Purliament should not be illegal because systematically and openly persevered in."

* *

The paragraph given by the British Medical Journal is a rich specimen of biased reporting. "After a long argument," says this authority, "in the course of which the judges expressed some strong opinious, apparently very unfavourable to the chemists, they declined to proceed to deliver judgment, considering that the facts of the case had not been sufficiently brought out in the case brought before the county court judge, and required that the case should be retried more thoroughly before a superior court."

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The Medical Press has a comment on the case in curiously muddled English. We give the parugraph entire, but should be sorry to attempt the interpretation thereof :- "Counter-Doctoring.—The case of the Apothecaries Company against Shepperly—in other words, the doctors against the prescribing druggists, the delivery of which has been anxiously awaited for the last six months - has aborted, and nothing is produced but a blind legal quibble, an evidence of faulti-ness of the law and indecision in the judge. The decision of the County Court had been against the druggist-doctors on the ground that, in one instance, Snepperley had not only dispensed, but had been consulted and given advice. The Chief Baron ordered a new trial of the whole affair (a decision which will be emineutly satisfactory at least to the lawyers), for the purpose of ascertaining what the 'custom of the trade' was, and whether a consultation and advising actually took place. His lordship, however, expressed a decided view upon the question, which is valuable, if, indeed, as is most likely, some other judge does not hold an exactly opposite opinion. The apothecary, he said, has power to do what a chemist and druggist also has power to do, that is, to make up prescriptions and vend medicines across the counter, and, therefore, so far he may act as an apothecary if he happens to have an apothecary's certificate, or it may be done by a chemist and druggist who has no such certificate, and is not an apothecary. question here is whether upon what the defendant has done, which is something more than merely selling drugs or medicines across the counter, because it is his being consulted and giving something in fact to a man who tells him that he has a pain in his chest, or a sore throat, or one thing or another, he thereupon supplies him with medicine. If you can show that that also is within the privilege of a chemist and druggist, although it may be within the privilege of an apothecary also, to hold that this man is liable to this action and subject to the penalty, would be to hold that every chemist and druggist is liable. can show that (consulting and prescribing) is within the privi-lege of a chemist and druggist. It is difficult to see how it can be so, considering that function is, by Act of Parliament, expressly restricted to the apothecary or medical men, and no subsequent Act modifies that restriction. If this be so, we lack the legal brains to understand how the 'custom of the trade' comes in question. It is 'the custom of the trade' to sell adulterated drugs, but, nevertheless, it is illegal so to do.' adulterated drugs, but, nevertheress, it is inegal so to do. With regard to the first sentence in that comical article we may remark that "the delivery of a case" is an expression peculiar to the writer, the verb "to abort" is a barbarism, a "blind legal quibble" is nonsense, and the assertion of "faultiness of law and indecision in the judge" is a piece of trumpery insolence equivalent to the attempted joke in the last sentence, and worthy only of a person who frankly confesses that he lacks the brains to understand the chief point in the case which he professes to comment on.

In pleasant contrast with the uncandid opinions expressed by the medical journals, we quote with pleasure the following editorial from the Globe of December 5, which gives the position from the point of view of the too much disregarded public.

"The Rights of Chemists. - The Exchequer Division of the High Court of Justice has just ordered a new trial in a case of much social interest, involving the right of a chemist to exercise discretion when selling medicine over the counter to be consumed or not 'on the premises.' The County Court Judge of Northampton (sic) was lately asked by the Masters and Wardens of the Apothecaries' Company to convict a chemist in that town for solling a draught to a man with the extraordinary name of 'Thomas Jolly Death,' who complained of a 'sore throat and tightness of the chest.' The chemist said 'I think I can give you something that will relieve you,' and forthwith gave him some medicine, for which the applicant paid one shilling. The County Court judge convicted the defendant under the penal clauses of the Act of George III., passed in the year 1815, commonly known as 'The Apothecaries Act.' The 28th section of that measure reserved the right, not only to chemists and druggists then living, but to any person who at any future time should carry on the business of a chemist and druggist, to prosecute the same as fully and amply as it had been carried on by chemists and druggists before the passing of the Act. The question now is whether the Northampton chemist, in giving a bottle of medicine to the customer, had not invaded the privilege of a licensed apothecary, or whether he was not within his rights as reserved by the Act of George III. Against the decision of the County Court judge an appeal has been made to the Court of Exchequer, and the Lord Chief Baron and Baron Cleashy have ordered a new trial, with a view to a subsequent reference to the court above. The matter to be decided is of more interest to country practitioners of medicine and to provincial chemists than to their colleagues of the metropolis; but it raises au issue of great importance to those of the public who canuot afford to pay medical fees, and yet who desire the simple form of treatment well known to be applicable to temporary disorders of the system. The law in this case has been set in motion by the Apothecarics' Company, and the defence is undertaken by the Chemists' and Druggists' Protection Society. The penalty sought to be recovered is 201. for each offence, and if the ruling of the County Court judge be upheld, a man who may take poison by mistake may not be able to get an emetic in time to save his life."

The Pharmaceutical Journal, of course, aims above all things else to avoid committing itself. "Whatever may be the result arrived at," says this authority, "we think it right to say that the Pharmaceutical Society as a body has always sought to develop the opinion that the business of the pharmacist should not comprise the prescribing of medicine; this, however, is a matter of principle and of ethics, quite apart from the question as to rights and privileges, and since the right to practise medicine is not barred even by the Medical Act, we cannot perceive that the chemist and druggist is less entitled to do so, if he pleases, than any other member of the community."

RENEWAL OF PRESCRIPTIONS.

Referring to the new German law providing that no prescription containing a dangerous medicine shall be renewed by a pharmaceutist without the express order of the prescriber, the Medical Examiner says:—"A complaint is not infrequently made by physicians, that when a prescription has once been given they cease to have any further pecuniary interest in it. This is most true, and there is good reason for complaint. In many cases it compels medical men to dispense their own medicines, when they would gladly hand over this duty to the chemists. It has been suggested that chemists should not dispense a prescription twice unless it has been countersigned by the medical attendant, who should receive a fee for so doing. In Germany, where they do these things better than in England, the renewal of all prescriptions containing active medicines is forbidden by law. Pharmacists may only supply such on the order of the doctor who prescribed and gave the prescription."

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After quoting this, the *Medical Press* remarks:—"Such a proposition is incomprehensible to us, and is, we submit, totally contrary to the equity of the matter. Surely, when a patient consults a doctor, and pays him for advising the best medicament for his particular case, he has a perfect right to use that medicine for all time, and it would be monstrous to ask him to pay at each renewal for leave to make use of that which he has

purchased at market value. Morcover, such a law as that which our contemporary suggests would—so far from benefiting the profession—be a great hardship upon them, for it would threw rou them endless trouble and responsibility for countersigning prescriptions, for which duty they could not reasonably hope to be feed. We quite agree that the lending of prescriptions to other patients is dangerous and unfair, and ought to be forbidden, but it would be quite impossible to put a stop to such practice."



Literary Notes.

Perfumery and Kindred Arts: a Comprehensive Treatise on Perfumery. By R. S. Cristiani, Consulting Chemist and Perfumer, Philadelphia. Philadelphia: Henry Carey Baird & Co.; London: Sampson Low, Marston & Co.

We have received from an American source the volume whose title is printed above. The book, though handsomely get up, is not designed as many perfumery treatises have heen, merely to serve as an elaborate advertisement for the manufacturer whose name it hears. To a considerable extent this is a really practical work. In fact, the introductory chapters on the history of perfumes are the weakest part of the production, and the value of the work depends entirely on the usefulness of the actual working formulæ which are furnished. Cristiani's treatise is very similar in character to Dussauce's "Perfumer's Guide," also published by Mr. H. C. Baird, some ten years back. Both are very desirable adjuncts to chemists whose trade has extended into the domain of perfumes.

After the inevitable history of perfumes, Cristiani proceeds to describe the materials used in perfumery; and the laboratory and its requirements. Then chapters are devoted to "Tinetures;" "Extracts and Bouquets;" "Aromatic and Toilet Waters;" "Sachet Powders, &c.;" "Preparations for the Skin, including Rouges and Paints;" "Pemades and Cosmetics;" "Hair Oils, Tonics, Dyes, and Depilatories," and "Preparations for Teeth, Gums, and Breath." Flavouring extracts have also a chapter to themselves, and the manufacture of toilet soaps forms a special and prominent feature of the book, occupying several chapters. This section is a very important one, and the manufacture is clearly described, aided by good weodcuts. As an appendix the author throws in a quantity of formulæ for syrups, jellies, candies, liqueurs, cordials, domestic wines, &c., as well as flavours and perfumes for cigars and tobaccos. It will be seen from this hrief synopsis that the book contains very much of actual business value to most chemists and druggists; and while we may remark that the value of the formulæ can only be fully appreciated after actual trial, we are convinced that none of our readers will fail to get their money's worth from this work if they huy it.

THE "YEAR-BOOK OF PHARMACY."

We have received in advance of publication the usual editorial "Introduction" to the "Year-Book of Pharmacy," which has attained an undoubted importance in pharmaccutical literature, and upon the annual publication of which busy English-reading pharmaceutists are to be congratulated. It is not by any means the least important service which the British Pharmaccutical Conference renders to its members, that it provides them once a year with a simple article which they can digest in an hour, wherein a competent authority condenses for them the most important facts affecting the advance of pharmaceutical science gathered from wide and scatter d fields. The Conference would not spend some of its surplus income badly if it were to arrange with its editor to double the regulation 16 pages devoted to this feature, especially as year by year the investigations issuing from the Conference itself attain without some such aid an increasing incomprehensibility.

Mr. Siebold (the editor of the "Year-Book" and author of

Mr. Siebold (the editor of the "Year-Book" and author of this Introduction) makes the most lucid narrative that pessibly could he made out of the somewhat intractable materials in reference to the chemistry of the aconite alkaloids. According to him this subject has now been raised "from a condition little better than chaos to a fruitful field of inquiry." Those who recall the contradictory results which opposing investigators maintained with equal confidence at Plymouth may doubt whether choos has even yet been entirely cleared off the subject.

The chemistry of alkaleids occupies about four puges in all, and the writer goes on to describe very briefly, but in clear and exact lauguage, a great many other results of chemical research, skilfully giving the utmost reasonable prominence to the work of the Conference itself. This difficult work is accomplished with that apparent ease which is the sure indication of very eareful lahour. We have only to complain that the more distinctly pharmaceutical observations of the year have had to he crowded into a space barely sufficient to mention them. The record of chemical results could not well he compressed into less space, and we hope Mr. Siebold will next year resolve to do more justice to pure pharmacy by giving it another 16 pages all to itself.

A NEW quarterly journal of mental diseases, entitled *Brain*, will be issued early next year by Messrs. Macmillan. The editors will be Dr. J. C. Bucknill, F.R.S., Dr. Crichton Browne, Dr. Hughlings Jackson, and Dr. Ferrier, F.R.S.

The Tenth Edition of Beasley's "Pecket Formulary" has lately been published by Messrs. Churchill. It has evidently undergone a careful revision, especially in regard to foreign fermulæ. We notice also a new appendix, in which are to be found brief notes on the more important novelties in materia medica. This section might have been made very much fuller with great advantage. As it is, it contains only just ahout as much information as most pharmacists have in their heads, and for which they do not need to refer to books. Beasley, we regret to observe, departs here from his usual accuracy, and twice over refers to cocca leaves in describing the product of the Coca erythroxylon.

Pharmaceutical Notes.

COMPOUND MIXTURE OF IRON.

(Original.)

Is it advisable that this valuable mixture sheuld only be prepared as advised by some commentators on the pharmacopæia immediately before dispensing, or may it be kept ready prepared, oxidation heing as much as possible prevented by securely stopping it from contact with the air? In other words, is there any method hy which with probably only an intermittent demand it may be kept ready for dispensing, and yet sent out with the highest regard to appearance and efficiency? We had been in the habit of meeting the difficulty by the convenient plan of keeping the mixture ready prepared minus the iron which was only ndded when the mixture came to be required for dispensing. Lately, however, we were compelled to inquire into the whole subject from the fact that a quantity of this mixture (minus the iron) had lain aside for a considerable period, and wo were naturally anxious to know, first, how far the mixture, under the circumstances, still retained its aroma, &c., and second, how far it was capable of effecting complete decomposition of the sulphate of iron when added.

Rightly to appreciate the difficulty it is necessary that we

Rightly to appreciate the difficulty it is necessary that we should understand the relation of the several ingredients to each other, more than is expressed by the simple equation FeSO₄ + K_2 CO₃ = Fe Co₅ + K_2 SO₄. If this were all the problem would be comparatively easy of solution, for nothing need then hinder the preparation of the mixture de novo when required. After much patient investigation and experiment, we are convinced that neither this nor the pharmacopaia process permits of the highest results, as regards appearance and efficiency. To understand this it is necessary to bear in mind that the prepertion of carbonate of potass is in excess of what is actually required to decompose the sulphate of iron by a half (less one grain, to be minute) and that this excess of alkali exerts a very impertant hearing both on the appearance, preservative proporty and general efficiency of the mixture. It acts in short on the electron of the inyrch, forming a suponaccous emulsion, which tends not only to keep the solid matter of the mixture in suspension, but more especially ulse to prevent to a very material exteut the

oxidation of the carbonate of iron. Following the pharmncopoin plan of adding the sulphate of iron immediately after the trituration of the potass and myrrh, &c., the suponification of the myrrh is not complete, and therefore the mixture cannot be in the most favourable circumstances for preventing oxidation in keeping.

As a matter of fact, the saponification is not complete for a very considerable period, and therefore the longer the various ingredients are in contact previous to the addition of the sulphate of irou the better, provided the mixture suffers no deterioration in other respect, such as loss of aroma, &c. To test this, we laid nside several quantities for different periods, varying from two to four weeks and upwards, taking no more than ordinary precautions to prevent exposure to air and consequent loss in aromn, and we found that if the mixtures did not positively improve, they most certainly did not deteriorate even by the longest period to which we tested them. A much more important point, however, here presented itself, namely, if the carbonate of potass was only slowly acted upon by the myrrh and other oleaginous substances in the mixture, was there as much free carhonate left after lengthened exposure in the mixture as to completely decompose the sulphate of irou? To determine this was in every way n more important as it was a more difficult task, uot only from the fact that very different results were ohtained according to the quality and condition of the myrrh employed in the mixture, but also from the very uature of the investigation itself. If the coarser kinds of myrrh were used, or if the myrrh was in the powdcred state, though of the finest quality, the carbonate was always found present in excess, but this was not the case when the very finest specimens of fresh tear myrrh were used. In these last circumstances the carbonate was always acted upon to a very considerable extent, but in no case did we find it acted upon to the full extent of the spare amount, so that the iron was in every case fully decomposed. We conclude therefore that the plan of mixing the various ingredients of this mixture minus the sulphate of iron, and thus preserving it for dispensing purposes, is convenient and sound, and produces a more uniform and efficient mixture than hy any other method.

Aromatic Mixtune of Iron. (Original.)

The unsatisfactory nature of this mixture as a ferruginous preparation has frequently heen commented upon, and we therefore refer to it at present not to add another to the general condemnation which has thus been passed upon it, but to narrate the result of an attempt which we made to improve its character so far as the amount of iron present in it was con-cerned. By repeated experiment we had determined first that the loss in weight of the iron wire (experimenting on the Pharmacopæia quantities) ranged from a little over one grain to two and a half grains to the half ounce of wire employed; and second, that the actual amount of iron passing into the mixture as soluble tannates was only ahout 44 grains at the very highest to the twelve and a half fluid ounces of mixture. In other words whilst each half ounce of iron wire lost between one to three grains in weight on maceration, only a fractiou of this was soluble, and passed through the filter into the mixture, the highest amount obtainable heing only '44 grains iron to the twelve and a-half ounces of the mixture. We cannot at present place our hands on any individual authority on the subject, but if our memory does not fail us we think this to be less of iron in the mixture than some have in other cases made out. Be this as it may, the plan we thought of for increasing the amount of iron in the mixture was simply to macerate all the ingredients entering into the mixture together, under the impression that the wire would be more powerfully acted upon, were the acid present in the tincture of orange peel to come into contact with it along with the other ingredients, during the three days maceration. Two separate experiments gave the loss of iron under these conditions to he as near as possible 5 grains to each half-ounce of wire, and this we found on estimating, as in the previous cases nearly all passed through the filter as soluble tannates. We cannot account for the diminished action of the mixture on the wire under these last mentioned conditions, but the result of the experiments was that we gave up the hope of improving this preparation unless it was an improvement which carried it completely out of the Pharmneopæin.

CONTRIBUTIONS TO PHARMACEUTICAL SCIENCE FROM BLOOMS-BURY SQUARE.

At the evening meeting of the Pharmneeutical Society, held on December 5, six papers were read. The first, by the Presi-

dent, Mr. John Williams, F.C.S, dealt with the preparation of pure ethyl nitrite. Nitrous neid gas was prepared by the reaction of nitric acid, and starch, copper, or some other body, and a steady current was passed into cooled absolute alcohol, which is preferable to spirit. The resulting liquid contains nitrite of ethyl, aldehyde, acids, and even malic acid. It was distilled from a waterbath at a very low temperature, and the resulting vapours passed through a series of flasks. The first, empty, condensed any alcohol which might pass over (boiling point 180° Fahr.), the second containing water to wash out the acid, most of the aldehyde, and the last traces of alcohol; the third with some potash solution at the hottom, over which the vapour was allowed to pass. This solution absorbed the last of the nidelyde, and gradually became of an amber colour. Nitrite of ethyl boils at 61° Fnhr., so that at the ordinary temperature of the laboratory it is a gas. This gas, purified by the process just described, was then passed over calcium chloride, and into alcohol, which readily absorbs it. The sp. gr. of a 10 per cent. solution of ethyl nitrite in alcohol is at 60° Fahr., '810 of a 25 per cent. solution '824, and of n 50 per cent. solution '850. When treated according to the pharmacopæial directions for the testing of Sp. Eth. Nit., the 50 per cent. gave a result equal to 48 per cent. of ethyl nitrite, the 25 per cent. solution yielded 23 per cent., the 10 per cent. only 5 per cent., and the 5 per cent. solution an appreciable quantity, but not enough to measure. The paper was specially designed to give pharmacists a method of preparing a definite solution whenever it should he required.

The discussion which ensued dealt chiefly with the Pharmacopeial process for the mannfacture of spt. ath. nit. Mr. Umuey said that he had found it answer on a large scale, but that special precautions were necessary. Professor Redwood said that if the Pharmacopeia were strictly followed, there was

no need for further precautions.

Dr. A. Senier and A. J. G. Lowe were the authors of the next paper on "The Colour of Podophyllum Resin." They conclusively proved that the variety in shade as distinct from that of colour, which is found in commercial specimens of the resin, is due to differences in physical state, and has no reference to chemical or physiological properties. Mr. Martindale made a few remarks, showing that the pharmacopeial preparation contained two resins—one soluble in ether, and of a hright yellow colour; the other insoluble in ether, and of a pale stone-hrown.

The next paper on Rheum officinale grown in England was by Harold Senior, F.C.S. It treated of the differences in physical characters of East Indian rhuharb, the root of Rheum rhaponticum, and of English grown Rheum officinale. The experiments made seemed to prove that the English root is of less commercial value than either of the others. Its physiological activity is left to the determination of the doctors.

Mr. W. A. Shenstone made nnother contribution to our knowledge of strychuine and brucine. His results may he summarised thus:—1. Commercial specimens of hrucine always coutain strychnine. 2. Pure brucine is uot converted into strychnine by treatment with nitric acid. 3. It is more readily purified by recrystallisation from weak acetic acid solution than by fractional precipitation. 4. It is soluble in about 150 parts of boiling water, not in 500, as commonly stated. 5. False Angustura bark contains strychnine, although Pelletier and Caventon deny it. 6. By prolonged boiling or heating with water hrucine becomes converted into more soluble products.

Dr. Tilden and Mr. Postans read papers recommending the use of Russian turpentine, on account of its odonr and taste heing much pleasanter than that of the American or French, and giving some fragmentary facts as to its chemical composition.

A NEW TEST FOR MORPHIA.

In the Berichte der deutsche chemisches Gesellschaft, G. Pellagie describes a method whereby very small quantities of morphin may be detected, dependent on the conversion of the morphin into apomorphia. The substance is first dried by a gentle heat, and then dissolved in hydrochloric acid. A small quantity of pure concentrated sulphuric neid is added, and evaporated at 100° to 120° C. in an oil hath. This brings out a purple colour, which is easily recognised by contrast with the carbonised matter. When the hydrochloric neid is evaporated, a new eupply of the same is added. The solution is then neutralised with sodium dicarbonate, whereupon a violet colour is produced, which does not change on exposure to the air, and is not

removed by ether. On the addition of a few drops of a concentrated solution of iodino in hydriodic acid, the violet is changed into green, and the green substance is then soluble in other, with a purple tint. These appearances indicate the presence of apomorphia. Codoia gives similar reactions, but is distinguishable from morphia by other. Brucia, treated in like manner, yields a blue colour when neutralised with the soda salt, which changes to a faint red when the iodine is added.

DETECTION OF MURCURIALS IN ANIMAL SOLUTIONS.

In the "Vienna Medical Year Book" E. Ludwig gives a process which consists in the substitution of copper or zinc in a finely divided condition for the quicksilver. Take 500 c.c. of the suspected liquid, and acidify with 1 to 2 c.c. hydrochloric acid, warm to 50° or 60° C., and actively agitate the mixture with 5 grammes of the metallic powder. The quicksilver falls in about half a minute. The liquid is filtered, and the remaining solid matter is washed and afterwards dried at 50° to 60° C. The quicksilver may be obtained by distillation. Certain animal matters pass over at the same time, which are to be destroyed by passing over red-hot oxide of copper. The author says he has proved this system by more than a hundred experiments. He has detected $\frac{1}{10}$ th of a milligramme of corrosive sublimate in 500 c.c. of wine, 1 milligramme in 380 grammes of liver and in 800 of brain.

CAUTION IN REGARD TO CALOMEL.

M. Jolly, in La France Medicale, records some experiments which indicate the danger of exposing calomel to the light, or of administering or keeping it in combination with unrefined, or partially refined, sugar, which may contain hydrated lime, or acids, or of mixing it with acids or alkalies, or the carbonate of the latter, or with calcined magnesia, as under all these conditions there is a tendency to the formation of corrosive sublimate. Thus, calomel should not be used in the form of particles, or givon with jams which contain acids. The carbonates of lime and magnesia have no effect on calomel.

WHY MILK SOURS DURING THUNDERSTORMS.

Dr. ILES, of Baltimore (in the *Chemical News*), considers the change in milk due to the ozone formed, which produces lactic and perhaps also acetic acids in the milk, these precipitating the cream.

COPPER IN OLIVE OIL.

OLIVE oil (says Hager's Pharmaceutische Central Halle) is often artificially coloured, and sometimes with copper salts. To detect this latter, Cailletet suggests that $\frac{1}{10}$ th grm. pyrogallic acid dissolved in 5 c.c. ether be shaken with 10 c.c. of the oil. If copper be present, a brown colour will result.

French Notes.

A strong case against the dealing in drugs by grocors has come to light. Towards the end of October a workman purchased of a grocer some Epsom salts. Soon after he took them he died, and it was found that instead of sulphate of magnesia he had been supplied with sulphate of copper.

* *

For some weeks past the oysters from the Bassin d'Areachon have been exhibiting a most nnusual violet tint. This has naturally caused some excitement among hoth oyster growers and oyster eaters. M. Desconrt, a savant, has been investigating the cause of the appearance, and finds that it is due to the presence of a minute species of alga, which has a deep violet colour. The long-continued drought is supposed to have favoured in some way the development of the algae. The coloured oysters, it need hardly be said, are in no way injurious. The green eysters so esteemed on the Continent owe their colour to a similar canse. English naturalists have succeeded in producing them at will by feeding the eysters on a certain algae. The colour is in England so associated with poison that although the oysters are sometimes of English origin, and are of peculiarly delicate flavour, they have to be experted to find a market.

Wo noted some time ago the case of the Lille pharmacien who was detected in the act of substituting cod liver oil and syrup of bark for the syrups of orange "Vannier" and lactophosphate of lime. The pharmacien was fined 50 francs for his act, and appealed. The result of his appeal is that he is further condemned to eight days' imprisonment.

* *

The Société Nationale des Amis de l'Enfance, while they still deem it undesirable to substitute artificial for the natural feeding of infants, have offered a prize of 300 francs for the best essay on the former. The essays are to be delivered to Dr. Alex. Mayer, 17 Boulevard St. Martin, Paris, before October 31, 1878. They must be headed by a motto which must correspond with the inscription on an accompanying sealed envelope containing the author's name and address. The essay must touch on the proper foods for infants of different ages, the most suitable feeding bottles, and the necessary precautions.

* 4

Rumours have been filling the air to the effect that the wife of M. C., pharmacien, of Rue Maubeuge, had been poisoned. The body had been buried, but the rumours grew so thick that the authorities disinterred the body. On analysis of the viscera, which were not nearly so much decomposed as the extremities, it was found that they contained a small proportion of arsenic, and certain poisonous vegetable drugs. The arrest of the pharmacien was resolved on, although during all the preliminary investigations he had maintained a calm and serene appearance, and had insisted repeatedly that his wife had died poisoned by her own hand. He is now in gaol awaiting trial.

* *

That smoking is a very slow poison has received many confirmations, but not often with such conclusive evidence as is furnished by the following ancedote, which we cull from the recently published Dutch experiences of M. de Amici, an Italian. Van Klaes, says our author, nicknamed "the great pipe," having enriched himself in the Indies, took the fancy, on his return, to open in his house a museum containing specimens of all the pipes ever smoked in the world. Visitors to the museum were supplied with catalogues bound in velvet, and departed with pockets filled with cigars. Van Klaes himself smoked nearly five ounces a day. Since his eighteenth year he had consumed more than 9,600 pounds. When he felt his end approaching, he said to his notary, a congenial spirit, "Let us fill our pipes: I shall soon die." He willed that all the smokers in the country should attend his funeral, that they should smoke during the ceremony, and drop the ashes from their pipes upon his coffin. On these conditions he bequeathed them all his pipes and tobacco. He departed this life in his ninety-eighth year, commanding his cook, who hated the smell of tobacco, to smoke a cigarette in his honour, and ordering that a pipe, some canaster, and some corporal tobacco should be enclosed in his coffin, "Who knows," said he, "what may happen."

A BRISK encounter in the legal lists between a "pharmacien" and a "médecin" is now going the rounds of the French journals. M. Mauté, of Beaumont-sur-Sarthe (the pharmacien), not long ago commenced an action against a doctor in his district for selling medicines to his clients. The doctor was condemned. But M. Mauté had to appear as a witness before the Court of Appeal at Angers. This involved his absence from home for three days. During his absence he deputed the control of his shop to M. Sœure, who had been for several years assistant to M. Mauté's brother at Mans. Here was a good opportunity! The defeated physician or his friends did not fail to avail themselves of it. Sœure was denounced to the legal authorities for having illegally practised pharmacy, and Mauté was indicted as an accomplice. It appears that Sœure, during the four days he was in charge (June 29 to July 3), sent out in one phial a mixture of syrup of ipecacuanha, distilled water, and carholic acid, whereas the syrup and the solution of acid should have been dispensed separately. On September 27 judgment was passed on the two offenders, condemning each of them to a fine of 500 francs on the counts already given.

They appealed. The Société de Pharmacie de la Sartho took the matter up, and the case was brought before the Angers Court of Appeal. This tribunal confirmed the decree of that of Mamers. At the hearing of the case, many of the Angers pharmaciens were present. They were warned that they had

no right to leave their shops, and that they were laying themselves open to similar prosecutions. This is not all. M. Mauté was of course obliged to attend at Angers to hear his judgment pronounced. This time, to avoid all apprarance of evil, he employed a pharmacien to replace him. The vindictive doctor, guessing that the substitute would leave the shop as soon as the shutters were up, wrote a prescription for one of his patients, and arranged that it was not to be presented until the shop was closed. Fortune favoured him. The medicine could not be supplied in the absence of M. Mnuté, who thus committed an involuntary breach of the law; and a summons, drnwn up by the doctor and the "maire," was forthwith served upon him by gendarmes. But a clause in the same law exempts from punishment any who are unable, from various uncontrollable circumstances, to supply the needed medicines. It is probable that the appeal in the former case will be carried to higher courts, and great efforts are being made to induce pharmacists to unite to upset this decree, which, if supported, will hind them as surely to their counters as Andromeda was to her rock.



THE PHARMACEUTICAL JOURNAL ON TEMPERANCE.*

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

Sir,—May I ask the favour of your inserting enclosed letter in reply to the article which appeared in the *Pharmaceutical Journal* on the "Science of Temperance," September 29.

I sent it to the editor, but he declined to insert it, on the ground that it "was considered unsuitable for publication." I then wrote the president of the Pharmaceutical Society, asking him to bring the matter hefore the Council, to express their opinion as to whether it ought to he inserted or not. He replied that the article had attracted the attention of the Council; that their opinion, "unanimously arrived at," was "that the article was unsuited to the pages of our *Journal*;" and that he, as president, had informed the editor of their opinion that my "letter is a very clever one," hut thought that, as it " would he very undesirable to devote the pages of the Journal to a controversy upon a subject not properly pertaining to pharmncy, I should agree that under the circumstances it would not he wise to publish my letter," to which, in the course of my reply, I said that the editor having had his say, and if no reply was inserted, a tacit nequiescence would be given to it, that there ought to he allowed one letter to show the other side of the question, no further discussion being allowed, and again asked him to bring the matter before the Council. To this I have had no reply, and, as the Council sit in secret, and only vouchsafe to divulge to their members what they please of their transactions, I do not know what is their opinion; hut as no reply has been inserted in the Journal, may I ask you the favour of inserting it in The Chemist ann Druggist, not as in any way embodying your views, or for the purpose of discussion, but to give that fair play which, if not characteristic of the cditor of the Pharmaceutical Journal, is of most Englishmen. I have not yet seen Fownes' last edition, but am informed that sugar is stated there to he diglucosic alcohol, which is probably what is referred to in the article. This, of course, does not affect the question in the least, as it is not intoxicating.

Yours very truly,

Looe: Nov. 14, 1877. JAS. S. HICKS.

TO THE EDITOR OF THE "PHARMACRUTICAL JOURNAL."

Sir,—The subject of your Editorial in last week's Journal being one in which I take great interest I shall feel obliged if you will allow me, as a member of a Christian Church, who has never tasted alcoholic liquors, to reply.

I shall not attempt to discuss the purely scientific part of the question; to do so might be a proof of my holdness, but certainly not of my wisdom, when men of the standing of Liebig, Richardson, and Paul differ. I must,

however, confess that it was news to me that sugar is an alcohol, and as it may also have been so to others it would probably be conferring a favour if you would enlighten us on this subject in the Journal; but certainly I most strongly demur to your statement that "the Dr. Richardsons work upon the popular ignorance in this matter," for whatever sclentific men may say about the question, we have both experience and common sense to teach us, and that is sufficient to show us the wisdom of abstinence. It is certain that alcohol is not necessary to existence. It is a fact that statistics obtained by Life Assurance Companies prove that abstainers live longer than non-abstainers. It is also a fact that the hardest and most inborious work is daily being performed without, as well, aye! better than with alcohol. In connection with the shipping of ores here, where the men have to wheel from the quays to the vesseis barrows containing from five to six ewt. of copper ore, the abstainers can do their work quite as well as those who drink.

It may be true, as Liebig states, that a greater amount of food is required by abstainors than by non-abstainers; but that is no proof that aicohol is food; since opium, which is not a food, has the same effects, for the opium cater uses less food than others. Granted that "animal heat is as important a factor in healthy life as fiesh-ferming food," it by no means necessarily follows that alcohol is the most economical mode of obtaining it. There are other substances which produce it, in my opinion, with far greater economy, and which are free from the had effects of alcohol. The Chinaman discovered that it was possible to get reast pork without hurning his house to cook his pig, and surely it is possible to obtain animal heat without so dangerous and expensive an expedient as alcohol, and in the Arctle, where the necessity for animal heat is greater than with us, alcohol is unknown, and yet the Esquimaux does not suffer from cold.

Moreover, you say there is a point at which it becomes injurious, but who shall determine that point? especially with the strange tendency on the part of those who take it to do so in dangerously large quantities. Men have not stopped at the point of benefit, but going beyond have drifted into degradation and death. Is this "a matter of consolation and congratulation to human nature?"

If it be true that "a man may bring about worse things than delirium tremens by eating nightingales and iampreys," I would entreat him to use a plainer diet, for I have known cases of delirium tremens which the descriptions in Dante's "Inferno" only equal, but never have I known, or heard, or read of "bread and butter" having such direful effects. Have yon, sir?

To infer from seeing a "vineyard or a hop-garden" that alcohol is a special gift of Providence would be the height of credulity, and reminds me of a mau who said to me many years ago, as a most convincing argument against tectotalism, "Tectotalism! then what should we do with the apples?" The agriculturist might ask the same question respecting the barley, and the sugar. Grapes need not be turned into wine to be of service to man; they are not only nutritious but very pleasant eating, even when dried as raisins, and I must confess that a beautiful hop-garden would never have suggested the beer-barrel to me; indeed, to imply that because these things exist in nature, therefore they are to be used as alcoholic beverages, is equal to the inference that because pine trees grow therefore I must drink turpentine.

We have no divine revelation or formula to do so, but God has given us wisdom to take the good and reject the bad. Unhappily, however, natural, plain, and simple tastes have been vitiated, and we are possessed of unatural tastes and cravings. "God hath made man upright, but they have sought out many inventious," and, alas, some of these have proved a curse instead of a blessing, but what constitutes the difficulty in dealing with the drink is the "comfortable sensations." It is not the "animal heat" that men seek: there is a deal of truth in—

"This I tell ec, The seat of empire is the belly."

But there is such a thing, sir, as moral philosophy, which bids us make self-love subservient to conscience.

Yon say it is "a small minority which consists of drunkards." Nevertheless, it is a fact that alcoholic liquors are doing more to demoralise the people and produce more sin and mlsery than anything else. I am afraid, sir, that, engaged in scientific pursuits, your life must be somewhat insulated, so that, the sins and sorrows of those around you do not trouble you very much. It is certain, however, that the baneful influence of drink is so wide-spread that there is scarcely a family which does not suffer from its direful consequences.

Judges have repeatedly stated that most of the crimes are caused by drink, and that, but for it, they would bave comparatively little to do, while the misery and suffering it causes are of terrible proportions; iudeed so far from there being "a small minority of drunkards," the number is so appalling that it cries aloud for prompt and effectual remedy. I live in a town where there is not more than the average amount of drinking in a county which is one of the most sober in England, but the number of violent deaths caused by drankenness here would, taking the ratio of the past seven years, amount to an average per year for the United Kingdom of 15,000, to say nothing of the many who have died from diseases induced by drink.

These, sir, were our brethren, however sinful and degraded, and to endeavour to raise such to a higher and nobier life is the highest ambition

[•] This letter renched us just too late for our last issue, in which another communication of a somewhat similar tenour was printed.

we could aspire to; and although you may call us "Quixotic," in the face of the appalling fact, we would not, even if we wished, drink a single glass, but strive to "remove this stumbling block ont of the way," and thus stay the fearful ravages that intemperance is working in our land, not merely by attempting to diminish its sale, but to pass laws which prohibit its common sale nltogother; and although you may deem it a "wasto of life," we have One whose guidance we prefer even to yours, Who says " Ho which converteth the sinner from the error of his ways shall save a soul from death, and shall hide a multitude of sins.'

This will impart infinitely greater pleasure, and give us far more "comfortable sensations" than the choicest wine over imparted.

Looe: October 3, 1877.

JAMES S. HICKS.

STEAMY WINDOWS.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

DEAR SIR,—It would be a great hoon if you could elicit from any of the readers of your journal an arrangement by which the condensation can he prevented from accumulating upon shop windows which are enclosed with sashes inside the shop in the usual way. This is known to he such a nuisnuce throughout the trade that the whole array of your readers would, I am sure, be grateful if you would set the matter on foot to be well "ventilated," and perhaps some one will thus he able to "dry

Yours truly, SHOPMAN.

CANINE TOXICOLOGY.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

SIR,-If your canine toxicologists will use a sufficient quantity of prussic acid, say half an ounce to an ounce, they will find it a certain coup de grace for any dog, cat, or other

Having been executioner to numbers of dogs, from fox terriers to mastiffs and never had the least difficulty in despatching them in two minutes, I send you these few lines, hoping they may prevent unnecessary torture to animals, by hanging or uncertain shooting.

I am, yours truly,
DESPATCH. Newcastle: December 6, 1877.

TO THE EDITOR OF "THE CHEMIST AND DRUGGIST."

SIR,-From all the valuable suggestions thrown out by your numerous correspondents on the above subject, there seems at present no satisfactory conclusion arrived at. I would, therefore say that during the last seven years I have poisoned scores, from large retrievers down to the smallest fox terriers, and have not met with a single instance of failure, and I attribute my success to the following facts. First, I see that the acid hydrocyanic (Scheele's), is fresh and good; secondly, that I am on the right side hy giving sufficient and causing it to be well diffused about the mouth, which I always find produces instant suffocation; and thirdly, when convenient, I place the animal in a coarso hag with just the head out, and then pour into the corner of the mouth two drachms of the acid from a half-ounce phial. If this modus operandi be adopted I'm sure failure will be the exception and not the rule.

Yours respectfully,

W. B. Cornley, A.P.S.

Colchester: December 6, 1877.

FELINE TOXICOLOGY.

TO THE EDITOR OF "THE CHEMIST AND DRUGOIST."

Sin,—One Sunday some years ago, being rather late for church, I was somewhat annoyed in being detained looking for my nearly new guinea hat. I at last found it, but to my dismay I discovered that our ahominable old tom cat had been using it as a cesspool. I was so utterly disgusted that I detormined there and then to swing him. Accordingly, I got hold of a rope and suspended him by the neek to our meat-hook,

which hung from the passage ceiling.

Having waited until the poor creature had finished struggling and given up all signs of life, I cut him down, and not wishing

a certain party in the house to know anything about it, I hid the careass, with the rope round its neck, just as if was, in the coal cellar, and then hastened off to church. What my devotional feelings must have been that morning I leave your readers

Not earing, as I have said, that the ahove party should be informed of the nffair, I hurried down the first thing on Monday morning to the coal cellar to have the animal put out of the house, when to my great astonishment the cat had vanished, leaving the rope entire behind him. On looking about for the brute, I found him coolly sitting under his mistress' table.

This piece of experience caused me to lose faith in the efficacy of hanging as applied to cats, so I thought I would try my hand the next time on poisons. An opportunity soon prescuted itself. Being again overrun with animals, having no less than three eats and one dog in the house, I once more determined to do for old tom. Accordingly, I craftily sprinkled a nice piece of meat with arsenious acid, and then enticed Thomas to purtake thereof, and quietly waited the result, but on going into the room next morning to soo how the experiment had answered, guess my surprise to find the wretch as lively as ever, while the other three animals, which had not been allowed

to share in the refreshment, were lying dead on the floor.

The fact was Tom had vomited his portion, and thus for the second time escaped with his life, while the others, interfering with the vomit, became defunct.

Since then I have confined my attention to Scheele's acid for this work, and have found it uniformly successful when fresh.

Your obedient servant,

Accidents.

FATAL GUN ACCIDENT IN A CHEMIST'S SHOP .- On Nov. 14 a melancholy occurrence took place at the house of Mr. Thompson, chemist and druggist, Bull Ring, Sedgley. One of the assistants, named Johnson, and young Thompson, a son of the propriotor, had been amusing themselves in the dinner-hour by snapping caps from a gun at the gas. Compstone, another assistant, on returning from his dinner, loaded the gun for shooting birds, and put it aside. Young Thompson, not knowing this, placed a cap on the nipple, and fired it into an adjoining office, where were the two assistants, and two other men, named Wakelam and Fellows. They were prostrated by the shock, and on recovering themselves they found Wakelam lying dead in a pool of blood, one side of his head having heen blown clean away. The other three men received several shots in the head and face. An inquest on the body of Wakelam was held the next ovening, before Mr. W. H. Phillips, coroner. The jury found a verdict of accidentally killed, and ceusured the young man Compstone, assistant to Mr. Thompson, for leaving a loaded gun ahout. Mr. Compstone said he much regretted the occurrence, but he was not aware at the time that the hoys had been interfering with his gun.

SERIOUS EXPLOSION IN A CHEMIST'S SHOP AT CRICKHOWELL. Mr. Robert Harries, chemist, Crickhowell, narrowly escaped having his shop and house destroyed by fire on November 19, under very singular circumstances. On the afternoon of that day Mr. Harries had prepared a quantity of horse powders (containing, amongst other ingredients, nitre, sulphur, and antimony). This was lying on the counter, while Mr. Harries was engaged in weighing and packing it up. In the evening, two neighbours were in the shop, convorsing and watching the pro-One of them (Mr. Martin, a grocer), being of a scientific turn of mind, determined upon having ocular domon-stration of the inflammable nature of the compound; he thorefore touched n small portion of it with a lighted piece of paper. To his surprise and consternation he immediately helield tho whole mass in a blaze. Mr. Harries, with much presence of miud, and at great personal risk, pushed the burning heap to the floor of the shop. In a few minutes the heat was so intense that the hundreds of bottles ranged on the shelves and in cases, and the large show hottles in the window, were broken. Some of the woodwork had taken fire, but hy prompt measures it was soon got under. Everything in the shop, however, from floor to ceiling, was either completely or partly destroyed. Although the fire only lasted about tou minutes, the damage worked was estimated at not loss than 500%. Mr. Harries was insprod.

FIRE AT WAKEFIELD .- On thu 3rd instant a fire breke out on the premises of Mr. F. Hudsen, chemiet, Kirkgate, Wakefield, the cause of which may as well be neted. Some paraffin having been spilt on the cellar floor, Mr. Hudsen was mopping it up with cetton waste, when a stray thread from the waste became ignited at a light which he held in hie ether hand, and instantly the whole mass was ablaze. Mr. Hudsen was compelled to beat a retreat, and some hampers and boxes took fire, and also the beams in the roof. The fire was soen put out, and a few pounds will cever the damage done.

THE CHEMICAL SOCIETY.

Thursday, November 15, 1877.

DR. GLADSTONE in the chair.

The President announced that as Professor Odling was unable to attend, his paper on Gallium would be postponed till the next meeting of the society. The fellowing communicatione

First report to the Chemical Society on seme peints inchemical dynamics by Dr. Wright and Mr. Luff. An elahorate ecries of experimente was made to find out the temperatures at which the actions of carbonic oxide, hydregen, and free amorphous carbon on oxide of iren or oxide of copper are first perceptible. The authors find that this temperature varies with the physical condition of the oxide used; that hydregeu acte on a given oxide at a lower temperature than carbon, and carbonic oxide at a lower temperature than hydrogen, and that a given reducing agent begins to act on copper oxide at a lower temperature thau on iron oxide.

"On the Chemistry of Cocea Butter." Part I.—"Two New Fatty Acids," by C. T. Kingzett. The first acid is a low acid of the eeries CnH_2nO_2 , having the formula $C_{12}H_{24}O_2$, i.e., lauric acid, but it melts at 57.5°. The second acid is a high acid having the formula $C_{64}H_{128}O_2$, crystallieing in microscopic needles or granulee, melts ut 72.2°, and at a high temperature distile apparently unchanged, the author proposes for it the name of Theobromic acid. It is pointed out that the usual statement in booke "that cocoa butter yields almost exclusively

etearic acid" ie entirely incorrect.

The third paper was "On the influence exerted hy time and mass in certain reactions in which insoluble ealts are produced," hy M. M. P. Muir. The author has taken colutione containing known quantities of calcium chloride and potassium or codium carhonate mixed, allowed to stand for a certain number of minutes and then estimated the quantity of calcium carbonate fermed. He has arrived at the following conclusions. That the greater portion of the chemical change takee place during the first five minutes. The reaction then dccreases in rapidity; the relative masses of the salts exert an important influence. Thus, if the mass of alkaline carbenate be four times that required, the action ie completed in five minutes, hut if an equivalent quantity only he present the action is not finished in forty-eix hours. Potaesium carbonate yields more calcium carbonate in a given time than eodium carbonate. An increase of temperature increases, whilst dilution, especially with eolutions of potassium or sodium chloride, diminishes the rapidity of the action. Senie experiments are given on the action of solutions of calcium eulphate and sodium chloride. The society then adjourned.

Thursday, December 6, 1877.

The President in the chair.

The following papers were read:—
"On Gallium," by W. Odling. The properties of the metal, its chloride and sulphate, and their reactions were given and

specimens exhibited.
"On Nitrification," a report of experiments cenducted in the Rothamsted Laboratory, by R. Warrington. Schlessing and Muntz have shown that nitrification is due to the action of an rganised ferment, whose action is suspended by chloroform. The author hae completely confirmed the above statement, and has proved that carbolic acid and bieulphate of carbon ulso stop sential for the process. The author has also succeeded in enverting a dilute solution of ammenium chloride into a nitrate, by seeding it with some earth from u fairy ring, and k-eping it in the dark for three months.
"On Potable Waters," by E. J. Mille, D.Sc. The author in-

vestigates, with great care, the minute errore incidental to the process of Frankland and Armstrong, suggests a new form of evaporator, and arrives at three untural constants or ratios of organic carbon to organic nitrogen in potable

"On some Derivatives of Allylareton," hy J. R. Crow. By the action of sodium a secondary alcohol homologous with allylic alcohol was prepared, its acetate and dihromide were also

investigated.

"On a Fourth Method for Estimating Bismuth Volumetrically," by M. M. P. Muir. The oismuth is precipitated as oxalate; the latter on beiling is converted into a hasic oxalate; the precipitate is well washed, dissolved in hydrochloric acid, and the solution titrated with permanganate.
"On the Gas of the Grotto del Cane," by T. G. Young. Thie

gae containe 61 to 71 per cent. of carbonic acid, the residual air

having the composition oxygen 20 25, nitrogen 79 75.
"Note on Tetrabromide of Tin," by T. Carnelly, D.Sc., and L. T. O'Shea. The hody was obtained as a colourless liquid. eolidifying to a mass of coleurless crystals, melts at 30° Fahr., boils, 201°.

The Society adjourned to December 20, when the following

papers will be read:—
"On the Constitution of the Terpenes of Camphor," by Dr. Armstrong.

"Cemmunications from the Laboratory of the London In-

stitution," by Dr. Armstrong.
"Hydrocarbons ohtained from Pinus Sylvestris, with some remarks on the Constitution of the Terpenes," hy Dr. Tilden.

"On Cuprous Chloride, and the Absorption of Carbonic Oxide and Hydrochloric Acid," by J. W. Thomas.

"On the Action of Reducing Agents on Potassium Perman-

ganate," by F. Jones.
"On Citric Acid as a Constituent of Unripe Mulberry Jnice," by Dr. Wright and Mr. Paterson.



WASH BLUE is commonly Prussian blue mixed with enough oxalic acid or ferrocyanide of potassium to render it soluble in

PURPLE BRONZE.—Zinc may be hronzed purple by dipping it in a hot decoction of logwood.

London spends annually 22l. 17s. per 1,000 for protection from fire. Paris spends 50l. 0s. 6d. per 1,000. New York spends 331. 14s. per 1,000.

A DUNBING for boote, which is of good quality, may he made by dissolving shellac in strong borax water. Thie when applied waterproofs them, hut does not harden the leather.

To CLEAN BRASS that is badly fly-specked, try a little fine rottenstone, slightly moistened and applied gently on a piece of chamois skin; or, if the lacquer will bear it, use warm water and the yolk of an egg.

A Sensinle Dog .- "Will he take it," we inquired of a German friend, as we handed him a dose for his dog? "Oh, yes!" was the somewhat innocent reply, "he is one seusible dog; he will not object to anything that is for his ultimate good."

"ADVERTISING."-The merchant or husiness man who don't advertise is like the boy who took green corn to market in a bag. When he was asked by would-be customers what he had to eell, he replied: "It's none of your business."—Boston Post.

VARNISH FOR TRANSFERMING is made as follows:-Take mastic in teare, 6½ ozs.; resin, 12½ ozs.; pale Venice turpentine and sandarac, each 25 ozs.; alcohol, 5 pints. Dissolve in a clean bettle or can in a warm place, frequently shaking it. When the gum is dissolved, strain it through a lawn sieve and it ie fit for uec.

Scene: The ante-room at the Edinburgh Chemists' Assistants' snpper, before the "battle."—Head Waiter, calling dietinguished guests to places: "Gentlemen of the Press."—Youngest Apprentice, after a pause: "Press forward"—Head Waiter: "Ara the gentlemen of the Press here?"—Youngest Apprentice: "The tincture press?"

AN INK that cannot be erased even with acids is obtained by the following receipt:—To good gall ink add a strong solution of fine soluble Prussian blue in distilled water. This addition makes the ink, which was previously proof against alkalies, equally proof against acids, and forms a writing fluid which cannot be erased without destruction of the paper. The ink writes greenish blue, but afterwards turns black.

The Patent Plumbago Crucible Company, of Battersea Works, London, have forwarded to us their new illustrated list of crucibles, muffles, furuaces, scorifiers, &c. This list is by far the most comprehensive ever published, and we think must be of great value to founders of brass, iron and steel, to refiners of precious metals, and to assayers. We note that the list of articles made for assaying is very complete.

JAPANESE LACQUER is made as follows:—Melt 50 lbs. of Naples asphaltum and 8 lbs. of dark gum anime, boil for about two hours in 12 gallons linseed oil; then melt 10 lbs. of dark gum amber and boil it with 2 gallons linseed oil; add this to the other and add dryers. Boil for about two hours, or until the mass when cooled may be rolled into little pellets. Withdraw the heat and thin down with 30 gallons turpentine. During the boiling the mass must be constantly stirred to prevent boiling over.

To Silver Iron.—To silver cast iron, 15 grains of nitrate of silver are dissolved in 250 grains of water, and 30 grains cyanide of potassium are added; when the solution is complete, the liquid is poured into 700 grains of water, wherein 15 grains of common salt have been previously dissolved. The cast iron intended to be silvered by this solution should, after having been well cleaned, be placed for a few minutes in a bath of nitric acid of 12 specific gravity just before being placed in the silvering fluid.

EUCALYPTUS ELIXIR.—The following is the specification of a French patent for a new Eucalyptus liqueur, invented by M. Rantien:—Infuse, for a fortnight, 400 grammes of leaves of Eucalyptus globulus in 1,000 c.c. alcohol 96°. In another, 1,000 c.c. alcohol 95°, infuse for a fortnight the following:—Balm, 6 grammes; angelica, hyssop, English pepermint, and canella, of each 2 grammes; nutmeg, clove, and vanilla, of each 1 gramme. Thirdly, make a syrup with sugar, 1 kil. water 1125 grammes. Add to the cold syrup 800 grammes of infusion No. 2, and a few days later filter. Then add 300 grammes of No. 1. infusion, and after skimming, filter again and bottle.

Pure Water for Schools.—We are pleased to find that the importance of supplying the drinking fountains in board schools with pure water is becoming recognised. A great deal of water is drunk by the children, especially in hot weather, and the heated condition of their blood whilst at play renders them peculiarly liable to the insidious effects of a tainted or impure water. The Silicated Carbon Filter Co., Battersea, have lately received instructions from the school managers to fit up their main supply filters in several of the existing board schools, and most of the new buildings in course of erection will also be furnished with these very necessary appliances, which are so arranged as to ensure the perfect purification of all the water used. The Orphanage st Woodside, Croydon, recently instituted by the Rev. A. Tooth, has also adopted this mode of filtration.

According to Trade Marks "there will be established shortly in Hamhurg, and also in London, permanent exhibitions of the principal German articles of industry and commerce. In Vienna, likewiso, a similar scheme has been projected for some time. The plan is looked upon with much favour in Germany. The exhibitions are to include patterns, designs, models, drawings, &c. Purchasers will have the benefit of hoing enabled to refer to the patterns of goods and manufactures, which are not only to form objects of exhibition, but likewise to serve as a basis for the transaction of business, and for judging as to the quality of the articles shown, as well as of their comparative value in competition with what is produced elsewhere." This seems to us to mean that a new commission merchant is about to open business in London.

Action of Alkalies.—M. Mialhe, says the Doctor, has brought this subject once again before the Paris Academy. He thinks alkalies cannot, as normal constituents of the economy, prove injurious. M. Gubler, however, though generally agreeing with M. Mialhe, cannot endorse this, and alludes to the view that excess of oxygen in the respiratory passages may cause death, as maintained by M. Paul Bert. M. Pidoux said he had seen gouty and dyspeptic patients when cured by alkaline waters attacked by bronchial and pulmonary ailments, and on these being cured by the eaux bonnes the lithiasis or gout returned.

Trane Marks.—The following agreement has been arrived at between Great Britain and the United States with a view to the reciprocal protection of trade marks:—The subjects or citizens of each of the contracting parties shall have, in the dominions and possessions of the other, the same rights as belong to native subjects or citizens, or as are now granted, or may hereafter be granted, the subjects and citizens of the more favoured nation, in everything relating to property in trade marks and trade labels. It is understood that any person who desires to obtain the aforesaid protection must fulfil the formalities required by the laws of the respective countries. The declaration is dated October 24.

COLOURED BORAX VARNISHES.—It is well known that an aqueous solution of borax is able to dissolve shellac, forming a kind of varnish, to which any desired colour can be imparted by mixing with pigments. Major Dr. Kahl, of Dresden, has communicated to the Dresden branch of the Saxon Society o Engineers the results of a large series of experiments made with these varnishes. He reports that they are very cheap, and dryvery quickly, but they scale off from wood too easily. When this varnish is coloured black with India ink and applied to paper, it possesses a fine gloss, but other colours, especially carmine, when mixed with this solution acquire an impure shade, and many pigments cement together in this solution, forming a hard and totally useless mass. The black shoe polish sold for ladies' boots is often made by adding come black pigment to this shellac solution. For bronze boots, rosanilin may be dissolved in any alcohol varnish.— Scientific American.

Registeren Letters and Post Office Orners.—The Post Office authorities contemplate the following changes in the present system of registering letters:—From January 1 it is intended to reduce the registration fee from 4d. to 2d., and to indemnify the owner, provided, of course, all regulations have been complied with, to an extent not exceeding 40s., in case of the letter or the contents being lost during transmission by post. It is hoped that this will save postmen from the temptations to theft too often offered at present by the despatch of unregistered letters containing articles of value. From the same date the commission on money orders for less than 10s. will be raised from 1d. to 2d., the present rate being attended with a very heavy loss to the Exchequer. For the convenience of persons residing in the rural districts, the walking postmen who collect letters will, for the first time, receive letters for registration and give a receipt.

IRIDESCENT GLASS .- Those of our readers who have time for gazing into shop-windows must have noticed a recent addition to our fictile manufactures of a number of ornamental vases, cups, bowls, &c., of clear white glass, covered with beautiful iridescent films of different colours, and marked at unconscionably dear prices. At first it was thought that the process consisted in submitting the glass to the action of a deoxidating flame, and that the colours-like those tiresome black shams that would always disfigure our first attempts at test-tubeswas caused by the reduction of the lead; but the specification of the patent tells a different story. The inventor of the process is M. L. Clémandot, a French civil engineer, who has patented it in France, England, and America. The principle of the process appears to consist in submitting the glass vessels to the action of dilute hydrochloric, sulpliuric, or other acid, under a pressure of from two to six atmospheres. M. Clémaudot claims to be able to imitato the beautiful nacreous films on ancient glass which has been submitted to the combined action of air and water for two or three thousand years; but the ornamental vessels already exhibited, although very pretty, are a long way off the poorest specimens of Aseyrian or Egyptian glass in any ordinary collection. Time is ovidently an important factor in bringing about this singular change. In any case M. Clémandot's productions are very beautiful, but we do not see why they should fetch such exorbitant prices.—Chemical News. To THANSFER writing to type-metal, dust the writing while still wet with finely powdered gum arabic. When perfectly dry, dust off the excess of gum, strotch the paper on a smooth level backing, and pour on the fusible metal.

IMPROVED PROCESS IN THE MANUFACTURE OF COPPER AND ITS ALLOYS.—The softness, small tenacity, and want of homogeneity of copper and its alloys prevent their use for many purposes for which they would otherwise be very snitable. Mr. W. E. Everitt has lately pntented n process intended to lessen or do nway with those defects. In the manufacture of copper or any of its alloys (preferahly those of zine) Mr. Everitt mixes with the copper employed 6 per cent. of black oxide of manganese, or some compound which yields it on being heated. After the copper is melted the manganese is well stirred in, the mixture allowed to stand till the dross separates, and the copper runs off. In making brass the proper percentage of zine is added to the melted copper. This invention not only renders copper and its alloys harder, tougher, and more homogeneous, but allows them to he rolled at a red heat, effecting an economy both of time and labour. The improved metals are said to be admirably fitted for the manufacture of steam boiler tunes, bearing shafts or axles, axle boxes, sheathing for ships, and holts and nails for the same, as well as for sheet hrass and brass wire.

COATING IRON WITH BRASS .- Zinc coated or galvanised iron goods have long been known and valued. But they are not remarkably handsome. We do not think of galvanising our door-handles or hell-pulls, but make them of solid and more oxpensive hrass. But iron may be coated with brass just as it can with zinc. It cannot be done so cheaply or so rapidly. But iron articles so treated are as well protected from rust as it galvanised. They are much cheaper than brass, and have a very fine appearance. Herr Hess, in the Metallarbeiter, recommends the process, which he says is useful for keys, bells, springs, cast door-plates statuettes, certain kinds of hollow-ware off timed inside and brassed outside they present a fine appearance), smooth turned door knobs, nails, wire, and other goods, used hy cahinet makers. The first step in the process is to thoroughly cleanse the articlo, either by means of emery, or by laying it overnight in a weak bath of sulphuric acid. It is then to be washed with water, ond a weak soda solution. It is next to be connected with the zinc plate of a galvanic hattery, and immersed in a bath consisting of 2\frac{1}{2} parts of sulphate of copper, 20 parts sulphate of zinc, and 45 parts cyanide of potassium, in 300 parts of water. Connected with the other pole of the hattery, and immersed in the same bath, should be two plates of zinc and copper of equal size. The colour of the resulting hrass coating may be modified by varying the depth of immersion of one or other of the plates. The galvanic current should be a strong one, and the liheration of hydrogon hubbles on the object to he hrassed should he plentiful. It is important, however, to note that the objects should be first coppered to insure a strong attachment of the brass coating. This process is therefore virtually electro-plating with an alloy which is made during the process.

Trade Motes.

MESSRS. CORTIE & Co. have started a business at Castle Street, Holhorn, for the manufacture of coated pills. They send us a sample and price list of their products. The coating is all that can be desired, both as regards solubility and finish.

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We have received a sample of "Prince's Polishing Powder," a non-mercurial plate powder. It is a very well got up article, a sixpenny hox being quite as large and of more imposing appearance than what is usually sold for a shilling. Messrs. May, Roherts & Co., wholesale sundriesmen, of Cow Cross Street, are the agents.

Mr. J. M. Faialle, of Glasgow, has taken the ngency for Great Britain for the "Patent American Recess Glass Labelled Bottles," which have some special features, hoth as regards appearance and utility, to recommend them. We refer all persons interested to the price list of these goods in our nevertisement section.

THE BUSINESS OF the late Mr. John Steward, of Brierley Hill, is now being carried on by Mr. Westwood, late of Dudley Street, Round Oak.

Sanitas.—During the past menth the Sanitas works were visited, on the invitation of the proprietors, by n large number of scientific and literary men, to whom the process of manufacture was described and explained by Mr. Kingzett, the inventor. This process has already been fully described in these columns. Mr. Kingzett showed some ment, eggs, and herrings in which putrefaction had set in, but had been arrested by the application of Sanitas. The product seems to be gaining favour. It was largely used at the recent Cattle Show, with considerable success.

ALLEN'S FOOD WARMEA.—A simple and efficient food warmer is provided by the apparatus shown in the centre of the accompanying engraving. The whole set complete is almost sufficient to render an infant or invalid independent of the outside world. The stand is supplied with a spirit lamp, but this is removable, and any night-light can take its place. The earthenware pemmican on the top of the stand is intended to contain a supply of food, and the nightight will keep that sufficiently warm through the night. The



kottle and saucepan both fit on the stand in place of the pemmican, and water can be hoiled in the one or beef tea prepared in the other in a few minutes. The stand can be bought with either one or all three of the accessories. The makers are Messrs. J. Allen & Sons, 64 and 65 Marylebone Lane, W.

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Magic Ferns.—A pretty chemical novelty, specially suited for the pharmaceutist's counter, has been introduced by Messrs. Ayrton & Saunders, of Liverpool, under the title of "Magic Ferns." An envelope tnstefully printed in colours contains a number of slips of paper chomically prepared. One of these, twisted in a zigzag form, so that it will stand on a plate, is so placed and lighted without flaming. As the paper burns away, the ashes form themselves into the shape of ferns of an olive-green colour, sloping in quite a natural manner. The experiment is a very attractive one, and chemists should make a Christmas novelty of this invention.

*_1

Mather's "Nigrine," we are informed, on the authority of Mr. Mather's own Price Current, "mny he truly termed the emperor of nll marking fluids, for we believe it is the only marking fluid which cannot he effaced by any chemical means." The most special feature of some recent emperors is that they have been somewhat easily washed ont. "But," adds the eloquent writer, as he warms with his subject, "once marked with this fluid the fabric must be destroyed to efface the name." Why it should be so necessary to destroy the fabric after marking it with this fluid we do not readily perceive. "More than this," we quite agree, "cannot be desired or accomplished." For ourselves, we should hardly desire so much. The "Nigrine" is supplied in 1s., 2s. 6d., and 5s. bottles, the quantity being rather more for money than is frequently given.

WE HAVE received from Messrs. W. & T. Jones & Co., of Southwark Street, a sample of their new "White Star" Southwark Sperm Candles. These are romarkable in possessing the appearance and qualities of the best candles, a high meltiagpoint, semi-transparency, and great brilliancy in burning, at a very moderate price. They are sold in 3 and 6 lb. packages.



[The following list has been compiled expressly for THE CHEMIST AND DRUGGIST by G. F. Redfern, Patent Agent, successor to L. de Fontaine-moreau & Co., 4 South Street, Finsbury, London; and at Paris and Brussels.]

Provisional Protection for six months has been granted for the following:--

- Artificial Teeth.—No. 3986.—J. H. Gartrell, of Penzanee, Cornwall.
 An improved apparatus for moulding plates of celluloid, vulcanised indiarubber, or similar material for artificial teetb. Dated October 27, 1877.
- Bottle Cap.—No. 4174.—A. C. Whyte, of Glasgow, North Britain. A new or improved cap or stopper cover for bottles. Dated November 8, 1877.
- Bottle-Corking.—No. 3810.—J. T. Willett, of the Old Kent Road, London. Improvements in bottle-corking machines. Dated October 15, 1877.
- Bottle Stoppers.—No. 4043.—L. Rose, of 11 Curtain Road, Finsbury, London, lime juice merchant. An improvement or improvements in the manufacture of stoppers for bottles for containing acrated or gaseous liquids. Dated October 31, 1877.
- Bottle Stoppers.—No. 4263.—J. Cooper, of Huddersfield, Yorkshire, innkeeper, and C. H. Pugh, of Birmingbam, stamper and piercer, and machine screw manufacturer. Improvements in apparatus connected with the stoppers of bottles and jars. Dated November 14, 1877.
- Cask Stand.—No. 3931.—J. Swindells, of Stockport, Cheshire. An improved stand for casks or barrels. Dated October 24, 1877.
- Caustic Alkalies.—No. 4144.—E. W. Parnell, of Liverpool. Improvements in the manufacture of caustic alkalies, and in apparatus or appliances used therein. Dated November 7, 1877.
- Corking and Filling Bottles.—No. 3902.—A. Macdonell, of Newry, Ireland, civil engineer. Improvements in machinery or apparatus for filling and corking bottles and other like receptacles. Dated October 22, 1877.
- Drying Apparatus.—No. 4019.—F. Wirth, of Frankfort-on-the-Maiue, Germany. Improvements in drying apparatus for scientific and ebemical purposes. Dated October 30, 1877.
- Emptying Bottles.—No. 4116.—G. W. von Nawroeki, of Berlin, Germany. Improvements in apparatus for discbarging regulated quantities of liquid from hottles and similar receptacles; also applicable for charging the said bottles with liquid. Dated November 5, 1877.
- Extracting Oil.—No. 3964.—H. Martin, of 171 Price Street, Birkenhead, Cheshire. Improvements in apparatus used in oil presses for extracting oil from oleaginous materials. Dated October 26, 1877.
- Filling and Corking Bottles.—No. 4168.—F. Clarke, of Canterbury, Kent, engineer. Improvements in machinery for filling and corking bottles and other vessels. Dated November 8, 1877.
- Food Preparations.—No. 4032.—O. Morfit, of 23 Sontbampton Buildings, London, consulting chemist. Improvements in the manufacture of animal and vegetable food preparations. Dated November 1, 1877.
- Hospital Beds.—No. 4161.—J. L. Hodgkins, of Beverley Road, Barnes Common, London. Improvements in beds for hospital and similar purposes. Dated November 7, 1877.
- Invalid Bedsteads.—No. 4188.—J. Reynolds, of Worcester. 1mproved apparatus to be applied to bedsteads for raising and supporting the occupant. Dated November 9, 1877.
- Lozengo Machines. No. 4172. H. J. Haddan, of London. Improvements in lozenge machines. Dated November 8, 1877.

- Manufacture of Icc. -No. 4064.-J. Gamgee, of Chelsea, London. Improvements in the manufacture of ice, and in apparatus employed therein. Dated November 1, 1877.
- Modicino Boxes.—No. 3842.—J. Rogers, of Walworth, London, wood turner. Improvements in machinery and tools to be used in connection therewith for the manufacture of turned wooden hoxes used for medical and other purposes, such improvements being also partly applicable for other purposes. Dated October 17, 1877.
- Mineral Gum.—No. 4085.—J. T. Way, of 9 Russell Road, Kensington, London. Improvements in the manufacture of mineral gum, and in its use for stiffening, addesive, and glazing purposes. Dated November 2, 1877.
- Pigments.—No. 3864.—T. Griffiths, manufacturer, of Liverpool. Improvements in the manufacture of pigmeats. Dated October 18, 1877.
- Purifying Coal Gas.—No. 3980.—J. Von Quaglio, chief eagineer of the Stockholm Gas Works. Improvements in purifying coal gas from bisulphide of carbon and other sulphur compounds. Dated October 27, 1877.
- Refrigerating.—No. 4065.—J. Gamgee, of Chelsea, London. Improvements in refrigerating, or producing cold, and in apparatus employed therein. Dated November 1, 1877.
- Salicylic Acid.—No. 4094.—M. Neustadt, of the firm of Neustadt & Co., Mincing Lanc, London. Improvements in the manufacture and production of salicylic acid, and in apparatus employed therein. Dated November 3, 1877.
- Soap.—No. 3898.—E. P. Alexander, of London. Improvements in the manufacture of soap. Dated October 22, 1877.
- Soft Soap.—No. 4158.—H. Simon, consulting engineer, of 7 St. Peter's Square, Manchester. Improvements in the manufacture of soft soap. Dated November 7, 1877.
- Spinal Supports.—No. 3798.—Mary S. Seltzer, of Twisden Road, Highgate Road, London. Certain improvements in spinal supporters or apparatus for treating spinal curvatures. Dated October 13, 1877.
- Sprinkling Seents, &c.—No. 3959.—H. Schildberg, merchant, of Moorgate Street, London. An improved apparatus for sprinkling or dispensing in spray scents, disinfectants, and other liquids. Dated October 26, 1877.
- Treating Ammoniacal Liquids.—No. 3992.—F. Wirth, of Frankforton-the-Maine, Germany. Improvements in apparatus for and in the treatment of ammoniacal liquids. Dated October 29, 1877.
- Treating Oxide of Iron.—No. 4118.—P. Spence, of Manchester, manufacturing chemist. Improvements in the treatment of spent oxide of iron arising from the manufacture of gas, for the purpose of obtaining certain valuable products, and for rendering the said oxide again fit for use. Dated November 5, 1877.
- Treating Refuse.—No. 3977.—H. Y. D. Scott, of Ealing, Middlesex, Major-General, C.B. Improvements in the treatment of exerctal aud other refuse matters containing nitrogen compounds for the manufacture of manures. Dated October 27, 1877,
- Urethra Instrument.—No. 3818.—W. R. Lake, of London. Improvements in the manufacture of instruments for introducing medicinal substances into the urethra. Dated October 15, 1877.
- White Lead.—No. 4142.—W. Thompson, of 120 Stainshury Road, London.

 Improvements in the manufacture of white lead. Dated November 7, 1877.
 - Letters Patent have been issued for the following:-
- Ageing Whisky.—No. 1832.—R. J. Wilson, of 37 Tritonville Road, Sandymount, Dublin, chemist. A new process for maturing and ageing whisky. Dated May 11, 1877.
- Bottle Stoppers.—No. 3278.—J. Cooper, of Huddersfield, Yorkshire, inukceper. Improvements in bottle stoppers and in apparatus connected therewith. Dated August 29, 1877.
- Bottle Stoppers.—No. 3498.—W. North, Shoepridge, Huddersflold, 1mprovements in stoppers for bottles, and in the means of securing stoppers in bottles. Dated Soptember 17, 1877.
- Capsuling Bottles.—No. 3319. E. Belmer, of Cambridgo Terrace, Islington, London, engineer. Improvements in capsuling bottles and other like receptacles, and in the apparatas or means employed therefor. Dated August 31, 1877.
- Colouring Matters.—No. 3698.—J. P. Griess, of Burton-on-Trent, chemist. Improvements in obtaining colouring matters suitable for dyeing and printing. Dated October 4, 1877.

- Corkscrews. No. 2307.-G. W. Von Nawrocki, of Berlin, Oermany. Improvements in corkscrews. Dated June 13, 1877.
- Destroying Noxious Vapours. -No. 3365.—T. I. Aiberdingk, of Amsterdam, Holland. improvements in offecting the destruction of noxious vapours or gases, and in the apparatus or means employed therein. Dated September 4, 1877.
- Knee-Caps, &c.—No. 2300.—C. Cotton, of 25 Derwort Street, Nottingham, mechanic. Improvements in means or apparatus for the manufacture of elastic fabric to be used in the production of knee-caps and other surgical hosiery and belts. Dated June 13, 1877.
- Preserving Anatomical Preparations.—No. 1972.—P. Toninotti, chomist, of Hamhurg, Oermany. An improved method for preserving anatomical preparations. Dated May 19, 1877.
- Preserving Fishes.—No. 1971.—P. Toninetti, chomist, Humburg, Germany. An improved method for preserving fishes. Dated May 19, 1877.
- Preserving Meat.—No. 1973.—P. Toninetti, chemist, of Hamburg, Germany. An improved method for preserving meat. Dated May 19, 1877.
- Preserving Milk, &c.—P. Toninetti, chemist, of Hamburg, Germany. An improved method for preserving mllk, crenm, and butter. Dated May 19, 1877.
- Purifying Air.—No. 1868.—H. B. Condy, of Battersea, London. An improved apparatus for automatically disinfecting and purifying the air in sick rooms or other confined places. Dated Mny 14, 1877.
- Refrigerating.—No. 3017.—A. G. Southby, of 3 New Inn, Strand, London, civil engineer. Improvements in the mode of and apparatus for making ice, refrigerating, ovnporating, and desiccating. Dated August 8, 1877.
- Spiced Vinegar.—No. 3283.—G. J. Hutchings, of Rupert Street, Bristol, wine and spirit merchant. Improvements in the manufacture of spiced or flavoured vinegar, and in the apparatus used therefor. Dated August 29, 1877.
- Stoppering Bottles. No. 2301.—W. Cotton, of Loughborough Leicestershire, manufacturer. Improvements in means or apparatus for stoppering bottles and such-like vessels to contain nërated or formentable liquids. Dated June 13, 1877.
- Sulphate of Alumina.—No. 2884.—A. A. Croll, of Coleman Street, London. Improvements in the manufacture of sulphate of aluminn and in apparatus employed therein. Dated July 28, 1877.
- Treating Sewage, &c.—No. 3571.—J. Gray, of Glasgow, North Britain, manufacturing chemist. Improvements in treating and utilising sewage and other refuse or waste matters, also in apparatus or arrangements therefor, and also in making preparations of lime therefor, and applicable to other useful purposes. Dated September 22, 1877.
- Treating Sludge Oil.—No. 1921.—H. E. Newton, of London. Improvements in treating sludge oil with sulphuric acid, and the product arising therefrom, and in manufacturing paints or varnishes therefrom. Dated Mny 17, 1877.
- Treating Sulphurie Acid Residues.—No. 2993.—J. Mason, of Eynsham Hall, near Witney, Oxfordshire. Improvements in the treatment of certain residues resulting from the production of sulphuric acid. Dated August 6, 1877.
- Treating Sulphuric Acid Residues.—No. 3203.—J. Mason of Eynsham Hall, near Witney, Oxfordshire. Improvements in the treatment of certain residues resulting from the production of sulphuric ncid. Dated August 23, 1877.
- Washing Wool.—No. 2208.—A. P. Rochette, of Petit Quevilly, near Rouen, France. Improvements in washing wool, and in solutions employed for this purpose. Dated June 6, 1877.

Specifications published during the month :-

Postage 1d. each extra.

1877.

- 1215. J. W. Frond. Refrigerators. 6d.
- 1273. A. M. Clark. Generating and applying electricity for medical purposes. 8d.
- 1282. J. M. Hamilton. Preparation of linseed meal. 2d.
- 1300. J. C. Martin. Manufacture of white lead. 6d.
- 1301. F. Y. Henderson. Receptacle for imparting or giving off moisture, vapour, or odour. 6d.
- 1319. J. Scharr. Llquid sonp. 4d.

- 1327, P. A. E. Brémond. Modicated bath apparatus. 2d.
- 1336. W. Townsend and S. Casson. Bottle and stopper. 2d.
- 1392. T. J. Smith. Liquid sulphate of alumina. 2d.
- 1402. R. S. Best and R. Morris. Sulphates of sodlum and potassium. 2d.
- 1405, J. Jackson and T. R. Mellor. Evaporating liquids, 6d.
- 1414. J. Eckart. Preserving food. 6d.
- 1438. W. R. Lake. Apparatus for putting up or making packets of Scidlitz or other powders. 6d.
- 1465. J. Holiway. Production of metallic silicides. 4d.
- 1474. J. Jeyes. Process for preserving meat, &c. 2d.
- 1536. H. B. Condy. Mnnufacture of soda. 4d.
- 1542. G. R. Hislop. Calciniug or revivifying spent time. 6d.
- 1548, J. Unwin. Preparation and preservation of nn electro-depositing solution of nickel. 4d.
- 1549. F. H. Atkins. Fllters. 6d.
- 1556. W. L. Wise. Preparing caustic aikalies and preparations of alumina. $4d. \ \ \,$
- 1583. C. Clamond. Apparatus for generating electricity. 6d.
- 1608. L. Sallien. Filtering apparatus. 2d.
- 1618. F. W. Kalbfleisch. Concentrating sulphuric acid. 6d.
- 1622. N. and J. Greening. Screening lime for bleaching powder. 6d.
- 1653. J. H. Johuson. Trusses and abdominal supports. 6d.



BANKRUPT.

SMITH, ANTHONY, Queen Street, Hull, manufacturing chemist. November 15.

LIQUIDATIONS BY ARRANGEMENT OR COMPOSITION.

- Notices of first meetings of creditors have been issued in re the following estates.

 The dates are those of the "London Gazette" in which the notices firs appeared.
- ARNOLD, HARRY SHAW, Cwmavon, Glamorganshire, chemist. November 5.
- Ashby, John, St. Andrew's Rond and Queen's Road, Hastings, soda-water manufacturer and confectioner. November 27.
- AYERS, GEORGE NUTTON, 7 Railway Street, Chutham, mineral water maker. November 14.
- BENNETT, WILLIAM WESTON, and BENNETT, ALFRED, trading as Bennet. Brothers, 22 Leadenhall Street, London, merchants, and Hawkeshury, near Coventry, chemical manufacturers. November 13.
- ORAY, JAMES THOMAS, Mill Street, and Nantwich Road, Crewe, chemist and mineral water manufacturer. November 23.
- Haneswonth, Thomas Henny, and Hurst, William, Tonge Bridge, near Bolton, and Newton Heath, Manchester, chemists and drysalters. November 21.
- HARMAN, BERNAL, East Cowes, Hants, chemist. November 22.
- PRENTICE, CHARLES WILLIAM, Fortune's Well, Portland, Dorset, chemist. October 19.
- RYAN, ALBERT, Wesley Street, Higher Tranmere, surgeon. November 26.
- Sample, John, Bondicar Terrace, Waterloo, Northumberland, shipowaer, nud Blyth, lemonado and soda-water manufacturer. November 7.
- SCATTERIGOOD, JOSEPH THOMAS, New Brampton, Derbyshire, acrated water manufacturer. November 20.

DIVIDENDS.

- ELLISSON, JOHN B. (liq.), Wombwell, Yorks, chemist, 1st and final div. 9s.; W. Sutton, Barnsley, accountmnt
- LAMBERT, THOMAS D. (liq.), Aysgarth, Yorks, chemist, 1st and final div., 21.; G. Hudson, Stockton, necountant.

PARTNERSHIPS DISSOLVED.

FOSTER & CHAMBERS, Bishop Anckland, soda-water manufacturers.

GOODAIRE, GOODAIRE & Co., Halifax, chemists; so far as regards Joseph Goodaire.

GREENWOOD & SCHOFIELD, Hallfax, acrated water manufacturers.

LEVER, RILEY & RILEY Nelson, mineral water manufacturers; so far as regards Amhrose Riley.

SMITH & SMITH, Hove, surgeons.

WETTE & SCHUCK. Little Tower Street, chemical manufacturers.

WHITEHOUSE & CHOWN, Stratford, surgeous.

WIMBLE & BUCKWELL, Maidstone, chemists.

Obituarn.

CHARLWOOD .- October 13, 1877, Mr. Edward Charlwood, chemist and drnggist, Dale End, Birmingham. Aged 46 years.

Dresser.--November 18, 1877, Mr. James Dresser, chemist and druggist, second son of Mr. Richard Dresser, pharmacentical chemist, York. Aged 29 years.

Powis.-September 20, 1877, Mr. Jahez Fowls, chemist and druggist, Kensiugton Road, Sonthport. Aged 46 years.

Gow.-Nov. 10, 1877, Mr. Alexander Gow, of Dudley Street, Wolverhampton. Aged 79 years. Mr. Gow had carried on business on the same premises for more than forty years, and was the oldest tradesman in Wolverhauipton.

HARGREAVES.—September 17, 1877, Mr. Robert Hargreaves, chemist and druggist, Castle Street, Clitheroe. Aged 58 years.

HAYLAND.-November 2, 1877, Mr. William Charles Hayland, chemist and druggist, Ousegate, York. Aged 57 years.

Hornsby.-November 13, 1877, Mr. Thomas Hornsby, chemist and druggist, Gatesbond. Aged 46 years.

JONES .- July 26, 1877, Mr. Edward George Jones, chemist and druggist, Staines. Aged 45 years.

JUDD .- October 11, 1877, Mr. Heury Thomas Judd, chemist and druggist, Market Place, Warwick. Aged 48 years.

KNIGHT.—September 21, 1877, Mr. William Knight, chemist and druggist,

Tewkesbury. Aged 69 years. LAIRD.-November 5, 1877, Mr. William Laird, pharmacentical chemist, West Port, Dundee. Aged 52 years. Mr. Laird was President of the Dundee Chemists' Association.

MACKERETH.-November 15, 1877, Mr. William Henry Mackereth, pharmaceutical chemist, Ulverston, Lancashire. Aged 50 years.

MAKINSON.-September 30, 1877, Mr. Thomas Makinson, chemist and

druggist, Chapel Street, Southport. Aged 31 years.

MALTBY.--November 12, 1877, Mr. William Battle Maltby, chemist and druggist, Bail Gate, Lincoln. Aged 50 years.

MANNING .- November 23, 1877, Mr. Thomas Davys Manning, pharmacentical chemist, Yeovil. Aged 44 years.

PARNELL .- October 20, 1877, Mr. James Parnell, chemist and druggist,

Berry Street, Wolverhampton. Aged 40 years. PARMINTER. November 5, 1877, Mr. Urhan Parminter, chemist and

druggist, Exeter. Aged 56 years. Ports.-November 24, 1877, Mr. Thomas Potts, pharmaccutical chemist,

Grainger Street, Newcastle-on-Tyne. Aged 63 years. SHACKLOCK.-September 29, 1877, Mr. James Shacklock, chemist and

droggist, South Caves, Yorkshire. Aged 45 years. SHENSTONE. November 3, 1877, Mr. James Byron Burt Sheustoue, phar-

maceutical chemist, High Street, Colchester. Mr. Shenstone was President of the Colchester Chemists' Association.

STERRIKER. - December 2, 1877, Mr. John Sterriker, pharmaceutical chemist, Great Driffleld, York. Aged 61 years. STEWARD. — November 18, 1877, Mr. John Steward, pharmaceutical

chemist, Kingswinford. Aged 61 years.

STEWARD .- November 18, 1877, Mr. John Steward, chemist and druggist, of 41 High Street, Brierley Hill. Aged 61 years.

TATE .- July 28, 1877, Mr. Edward Pitt Tate, chemist and druggist, Eastbourne. Aged 40 years.

Tovey .- October 20, 1877, Mr. Charles Tovey, chemist and druggist, Cairo. Mr. Tovey was pharmacist in the establishment of His Highness the Khedive of Egypt.

WARRICK .- November 20, 1877, at the Vice-Consulate, Nice, Mr. Francis George Warrick, late of the firm of Warrick Brothers, Old Swan Lane. Aged 53 years.

WILLIAMS. - August 27, 1877, Mr. Frederick Augustus Williams, chemist and druggist, Wellington, Somerset. Aged 65 years.

WILSON .- October 23, 1877, Mr. Richardson Wilson, chemist and druggist, Hessle Road, Hull. Aged 49 years.



TERMS.—Announcements are inserted in this column at the rate of one halfpenny per word, on condition that name and address are added. Name and address to be paid for. Price in figures counts as one word.

If name and address are not included, one penny per word must be paid. A number will then be attached to the advertisement by the Publisher of The Chemist and Dhuggist, and all correspondence relating to it must be addressed to the "Publisher of The Chemist and Dhuggist, Colonial Buildings, Cannon Street, London, E.C.," the envelope to be endorsed also with the number. The publisher will transmit the correspondence to the advertiser, and with that his share in the transaction will

FOR DISPOSAL.

Hooper's "Medical Dictionary," 8s. 6d. 1/18.

Two specie jars, 2 feet high, and 6-gallon carboy; 31. the lot. 64/156.

4 gross 4-oz. Eau de Cologue bottles. Offers wanted. Metcalfc, Chemist, Hull.

Watson, Dentist, Rochester, will exchange large vulcaniser for small one, if good.

Pharmaceutical Journals, 1854 to 1869, unbound, complete, to be sold cheap. 22/94.

A few thousand large poppy capsules, at 14s. 1,000. Atkinson Chemist, Lincoln.

Pulvermacher chain band, 31 inches, retails at 40s., been used once. Cash offers wanted. 2/156

Three cases quart Vichy Water, "Celestins," in stock twelve months, 25s. each. [Yorkshire] 5/90.

Elegant shop stove, Wright's Patent "Calorifer," equal to new, cost 51., price 30s. J. Guy, Chemist, Chester.

Twenty-eight lbs. good English beeswax, for sample enclose stamp. T. Cuthbertson, Lostwithiel.

Herbarium of 120 indigenous plants, 7s. 6d., carriage paid; Southall's 30s. Materia Medica Cabinet, 20s. 12/96.

Four and a-half doz. or less, quarts Carlsbad water, 7s. 6d. doz., or in barter, 8s. Cubitt, Norwich.

Mahogany glass case, similar to fig. 40 Maw's catalogue, in good condition, price 50s. Butler, Chemist, Tuubridge Wells.

41 doz. quarts Carlsbad water, 25 per cent. off London price, or in barter. Cubitt, Market Placo, Norwich.

The Chemist and Druggist, week old; alsn Beasley's "Druggist's Receipt Book." Jones, Pennydarran, Merthyr.

The Pharmaceutical Journal from commencement. Apply to H. Roberts, 3 Cedars Terrace, Edith Road, West Kensington.

Pill machine, 36, marble slab, new, 1l.; cost 2l.; about 3 dozen stoppered bottles, various, 4s. dozen. G. Thomas, Horsforth.

No. 1 Pindar's 4-grain piping press, 35s.; Squire's "Companion," eighth edition, 4s. 6d., free; small square tincture press, 5s.

Seventy mounted British plants, 5s. 6d.; prescriptions given to dispense at the Mipor, 2s. A. J. Edwards, Mrs. Burden's, High Street, Hythe.

Bell-metal sal prunella mould, mnulding 96 at once, weight 31 lbs.; also one iron mould for eake prunella. Price, 11. 12s. Dale, Bridge Street, Leeds.

Three 3-gallon carboys, 22 inches high; 6 cylindrical carboys, 19½ inches high; 2l. for the lot. G. Heal, Chemist, Old Market Street, Bristol.

Several gross superior white seamless indiarubber teats, quite new; small, 3s. 6d.; medium, 5s. 9d. "Druggist," 3 Clement's Inn Passage, Strand, W.C.

Southall's cabinet, Bentley's "Botany." Price together, 11. 3s.
Offers wanted. Apply, A. Hartill, chemist, Roseville, near Bilston, Staffordshire.

- Crown Perfumery Company's perfumes, pomades, &c., condition equal to new; large busts of Harvey and Hunter, by Bruziotti. 39/157.
- Leath & Ross's 47, 48 case and medicines in exchange for good tooth brush case, or eash. G. Bright, 19 Norfolk Square, Brighton.
- Plaister leathers for sale, about 20 dozou, large size, offers wanted for the lot, samples 21 stamps. 68 Edge Laue, Liverpool.
- Hancock's mixing machine, cost 25s.; no further use; 15s. Plate-glass mahogany counter case, 36 by 16 by 6, 17s. 6d., cheap. Stamp for reply, Appleton, Bolsover.
- Balance, weighs to 1.30th grain, short pan for sp. gr., very cheap, 11.; Chemist and Druggist for 1877. What offers? F. L. Phillips, 374 Bristol Road, Birmingham.
- Austin's pocket inhaler; Wyndbam's "Esprit des Œofs;" Oldridge's balm of Columbia, half price; 1-lb. steppered bottle Twemlow's ehlorodyne, 5s. 27,91.
- Pharmaceutical Examinations.—One of Evans & Lescher's 4-guinea Materia Medica Cabinets, nearly new, packed free, 45s. Moore, 75 Northgato Street, Gloucester.
- In good condition, a complete set of wall fixtures, including drawers and shelving, the latter supported by mirror pilasters. Turner, 110 City Road, Manchester.
- Fine Turkey opinm, P.B., in good condition, 18s. per lb. for eash, or would exchange for patents. &c., per arrangement. Address, Robson, Chemist, Grimsby.
- London Pharmacopæia, 1639, Rivers' "Modieino," 1655, Hooper's "Vado Mecum," 1809, all in good condition. What offers? Cash. 10/94.
- Fittings of a laboratory, suitable for a private gentleman or teaching, best German test bottles, platina erucible, gas fittings, about 350 chemicals and apparatus. 15/95
- Judson's dyes, assorted, 2s. 9d. doz., about 1½ gross; outside lamp, sexagon, cheap; good splendid large mahogauy upright counter case, cheap. Jenkinson, Chemist, Sheffield.
- Soiled gum arabic, 56s.; red argols, 28s.; dark honey, 36s.; ground pimento for cattle spice, 35s.; Myers' cattle spice 10 per cent. below cost. B. Nowsham & Co., Castle Hill, Sheffield.
- Volumes and odd numbers Chemist and Druggist and Pharmaceutical Journal, 1860 to 1876, sent anywhere for halfprice, carriage paid. Williams, Chemist, Coleford, Gloucestershire.
- A No. 1 set of tooth instruments as Maw's catalogue, page 35, 10s. 6d.; also 2 pairs stump forceps, 3s. each, good ns new. H. Thackray, Chemist and Druggist, Honley, near Huddorsfield.
- "A Key to Essay Writing," 4d.; arithmetical exorcises for Preliminary, 8d.; "Metric System," Judd's, 7d.; "Smith's Guide," new, 3s. 6d. Dispenser, The Infirmary, St. John's Hill, N.W.
- Extra fine Tinnevelly senna at 4½d, por lb., in 14-lb. and 28-lh. lots; 24 2-gr. pill machine, nearly new, at 10s. 6d.; Watson's "Principles of Physic," 2 vols., 4th edition, 10s. T. O. Hawthorne, Stafford.
- 40 one and two gallon black store hottles with caps, glass wall ease, good mahogany desk, mahogany dispensing sercen; very cheap. Read, 2 Market Terrace, Upper Holloway, London.
- A soda-water machine to make about 1,000 dozen per day, with rack, filling machine, dial and water gauges, with 2½ Bramah pump and 8-gallon cylinder; second-hand, in good order. 35l. 10s. 6d. Apply N. G. Wilcocks, Bath.
- Southall's case of Materia Medica specimons, cheap, 20s.; 112 dried plants, indigenous and official, with names and natural orders, 7s.; Lescher's "Elements of Pharmacy," 5s. "Minor," 153 Conybere Street, Birmingham.
- Pharmacentical stove, similar to one figured in Redwood's "Practical Pharmacy," in good order, with boiler, safety valve, steam pan, condenser, drying closet, &c., complete. Cortis & Son, Chemists, Worthing.
- Royle and Headland's "Materia Medica" (new), 8s.; Watkin's "Portable Cyclopædia," with plates, 5s.; Nicholson's "Dictionary of Chemistry," with plates, 5s. 11. Stewart, Bishops' Stortford.

- 40 lbs. Japan wax; 12 bottles ol. citronella; six 23-lb. Capper's ess. limonis; The Chemist and Druggist and Pharmaceutical Journal for 1876, 1878; quantity of old numbers; what offers? Bygott, Buxton Road, Huddersfield.
- Two pair tooth forceps and key in case, good, 15s. (cost 30s.).

 "Cyclopædia Practical Receipts," Cooley, 10s. (cost 30s.).

 The secret of beautifully coating pills, any colour, 5s. C. Miller, 160 Queen's Road, Aston, Birmingham.
- One cwt. sugar of lead, rather soiled, price 25s.; also 10 gallons genuine orange wine, P.B., price 42s., cask included; also three pairs splendidly polished buffule horns, one pair measures 7 feet, price 3l. Apply, Hulme, Chemist, Fenton, Staffordshire.
- About 16 gross 4-oz. dispensing bottles, 4th part flat, best quality at 8s.; a second-hand sea medicine chest for 21 men and upwards, similar to Maw's fig. A, 25½ by 15 by 16½ inches, containing 41 bottles; a bargain, 28s. Andrews, Chemist, Eastbourne.
- Fifty gross camphor-ball boxes, 5ij., 5ss., 3i., 1s. 9d. gross; ten gross kij. and 3iv. pomado bottles, without caps, 4s. 6d. gross; 28 lbs. Twemlow's chlorodyne, in 1-lb. bottles, 5s. 6d. lb.; 7 lbs. calomel. Harrop, Chemist, Middleton, Manchester.
- Roscoe's "Chemistry," Hunt's "Photography," Accum's "Chomical Amusement," Galloway's "Chemistry," Buckle's "Leech Conservatory," Cornet-à-Piston, thorough good trichord pianoforte (Kirkman's) 35l.; three years' Chemist and Druggist. Wynter, Seaford, Sussex.
- As good as now, post free.—Attfield's "Chemistry," 8s. 9d.; Lindley's "School Botany" (bound), 3s. 9d.; Cooke's "Botany," 9d.; Kirke's "Physiology," 5s.; "Dictionary of Modical and Surgical Knowledge," 3s. 9d.; the Journal direct, 7s. A., Middlesex Hospital, London, W.
- Advertiser, giving up sale of tobacco, has 42l. worth (retail value) of cigars in good condition; offers wanted; nothing reasonable refused; or would exchange for gool second-hand counter case (Maw's 105 preferred), and desk with case. Bulgin, Chemist, Gravesend.
- For Minor Candidates.—Full botanical description of thirty medicinal plants (including those required for Modified), 2s.; fifty questions asked (with prescriptions given to dispense at the last examinations), 2s.; fresh botanical specimens of plants, in season, fully described, 5s. per set (twelve). Saunders, A.P.S., 79 Gaisford Street, N.W.
- Ruston & Co., Exeter, have laid down larger machines, and offer the following for disposal:—No. 1 Hayward Tyler's machine, in perfect order, 50l.; 2½-horse power horizontal engine, with vertical boiler, 45l.; if sold together 90l. The above have been working up to last month, and are well worth the attention of intending purchasers.
- Hundsome beut plate-glass double show case, 2 feet long 2 feet wide, the lower case fitted with two velvet-lined trays, the upper with three plate-glass shelves with polished edges, and mirror doors to cach case; good condition, and great sacrifice. Sketch and price on application. II. J., 110 Stokes Croft Road, Bristol.
- 10 ft. 6 nest of mahogany-fronted drawers, 63, at 1s. 6d.; 6 nests, each 32 drawers, mahogany-fronted, 3 ft. 2 long, at 1s. 3d. per drawer; 12 ft. mahogany-top counter, panelled and trussed, 70s.; scales, as fig. No. 6, 9s.; fig. 4, 13s.; fig. 5, 16s.; scales, gluss pans, in mahogany boxes, 6s. each. E. Natali, 213 Old Street, E.C.
- Nests of drawers, window enclosures, glazed cases, shop jars, all sizes and colours, show hottles, specie jars, black store bottles, shelving, and other requisites, togother or separately; also tobacconist's handsome show cases, jars, &c.; a capital Wheeler & Wilson's sewing machine, price 2l. 10s.; also a handsome vase of satin flowers, price 3l. 10s. Apply, 294 Old Kent Road,
- Chemist and Druggist, 1868, except February, 1869, 1870, 1871, 1872, 1873, 1874, 1876, 1877, 22s. 6d.; Dental Journal, 1874, 1875, complete, 4s.; the "New Disponsatory." 1753, scurce, 7s. 6d.; Paris's "Pharmacologia." 2 vols., 1822, 4s.; Bell's "Surgery," 2 vols., 1809, 3s.; Wittstein's "Chemistry," 1853 (Darby), 2s. 6d.; Brande's "Pharmacy," 1825, 2s. 6d.; Smith's "Dental Anatomy and Surgery," 2s. 6d. W. P., 12 Sheaf Gardens, Sheffiold.

Quincy's "Dispensatory," 1724; five volumes Pharmaceutical Journal; five volumes bound, from 1870 to 1875; two volumes unbound; several volumes of second and third series; Chemist and Druggist, 1874, 1875, 1876, unbound; Proctor's "Pharmacy;" Skellett "On the Cow;" Fownes' "Manmal;" Roylo's "Materia Medica;" Hooker's "Student's Flora: "Year-Book of Pharmacy," 1874, 1875, 1876; Thomson's "Dispensatory." What offers? J. Archor, Chemist, Leehlade.

Seven ft. dispensing screen, glass case at each side, looking glass centro with marblo slab in front, very elaborate, 9l.; a 7 ft. 6 ditto, as 165. with carved work, &c., 8l.; sponge cases, as fig. 90, 85s., as fig. 92, 105s.; soda-water stands, 62 and 63, 50s. and 60s.; desk and case, as fig. 21, 65s.; ditto, as fig. 39, 45s.; dosks or cases, separate; 4-ft. dispensing screen, looking-glass back, 75s.; upright case, to stand on floor, 3 ft. high, 4 ft. long, 12 in. deep, marblo top, 90s. E. Natali, 213 Old Street, E.C.

A 6 ft. plato glass counter case, as Maw's fig. 105, 7l. 10s.; a 6 ft. ditto, as fig. 99, 6l.; a 6 ft., as fig. 103, 6l.; a 5 ft. 9, as fig. 98, 5l.; a 3 ft. 6, as fig. 16, 45s.; a 3 ft. 8, as fig. 100, 75s.; two 3 ft. 6 bent plate-glass counter cases, 12 in. wide, 8 in. doep, 60s. each; a 9 ft. flat glass case, 11 in. wide, 90s.; soveral othors, all sizes, very cheap; a very elaborato bent plate-glass counter case, 4 ft. long, 20 in. wide, 15 in. deep, looking-glass back, velvet lined, with a plate-glass shelf inside, 6l. 10s., a bargain; every requisite for a chemist's shop, very cheap. E. Natali, 213 Old Street, E.C.

British Pharmacopæia and Squire's "Companion." 6th, 7s.; Ballard Garrod's "Materia Medica," 4s. 6d.; Paris's "Pharmacologia" and "Chomical Grammar," 4s. 6d. (published 46s.); Cooper's "Surgical Dictionary," 7th, 6s. (cost 30s.); Thomson's "Dispensatory," 4s.; Copland's "Dictionary Medicine," first six parts, 6s. (cost 2l. 0s. 6d.); Thomas's "Modorn Practice Physic," 3s. (cost 18s.); Graham's "Disoases Fémales," 6th, 5s. 6d. (cost 11s.); Churchill's "Midwifery, Diseases Women," 2 vols., 10s. (cost 25s.); Churchill's "Manuals," Royle, Fergusson, Fownes, W. Jones (published 50s.), lot 10s. Letters to H. Preston, 21 Clarendon Square, N.W.

A pair specie jars, Royal Arms, gold covers, 24 in. high, 75s. pair, equal to new; a pair very handsome ditto, gold covers, 27 in. high, 65s. the pair; several others from 50s. the pair; ono very handsome, equal to new, Royal Arms, gold cover, 34 in. high, 90s., equal to new; three 3-gall. carboys, 6s. oach; three 4-gall. ditto, 6s. 6d. each; two 6-gall., cut stoppors and stands, 19s. each; 20 doz. shop bottles, 7s. 6d. per doz.; black stock bottlos, 1s. 8d. each; new ointment jars, labelled, 3-lbs., 2s. 6d. each; twenty 4-lb. white ditto, labelled, 1s. 8d. each, good and sound; a quantity of other cintment jars very cheap; mortars, iron, compositiou, marble; ½-gall. tincture press, fig. 1, 2-gall. ditto, fig. 2, 30s.; 24 pill machines, 12s. 6d. oach; percolators, &c. E. Natali, 213 Old Street, E.C.

The ontire fittings of a first-class shop, bottles, jars, fixtures, cases, &c., for 110/., cost 300/., only in use three years; also the fittings of a small shop, price 23/.; new platoglass casc, 42 by 20, 75s.; new ebonised case, 54 by 20, 85s.; new ebonised plato-glass case, 48 by 20, 75s.; dispensing scroen, obonised, with tablot on top, about 65 inches long by 26 inches high, mirror in centre, platoglass, 72s. 6d.; flat sloping case, new, 30 by 13, 13s.; plato-glass case, 24 by 30, 20s.; plato-glass case, 27 by 18, 22s. 6d.; 10 specie jars, 36 inches to top of cover, with handsome glass covers, 70s. cach, labelled to order, royal or other arms, one or more for this lot only, trade price 130s. cach, net; a few smaller jars very cheap; ointment jars and bottles, enough to fit a small shop, for 60s.; handsome wall case, 7 feet high by 7½ feet long, mahogany, newly done up, 110s.; 4 tolescope brass enemas, new, 3s. 6d. each; second-hand brass counter scales, 1 and 2 lbs., 10s. 6d., 12s. 6d., 15s., 17s. 6d., 20s., 25s.; two hundred 2nds Wedgwood mortars, all sound inside; handsome roundended counter screen, Tomlinson's, Manchester, No. 9, equal to new, 6l. 10s., ordinary price 10l. 10s.—R. Tomlinson, shop-fitter and valuer, 15 St. Paul's Square, Birmingham.

Fifty pear-shape window carboys, from 1 gall, up to 14 gall.; $25\,$ handsome gold-labelled specie jars, with gilt glass covers, all sizes; 14 handsome cut-glass show vases, as fig. C Maw's; 50 handsome show vases, as fig. D Maw's, with elegant labels inside, and gilt glass covers, sizes from 10 to 14 in. high; 250 show jars, as fig. A Maw's, sizes from 65 to 23 in. high; 48 show jars, as fig. A Maw's, with elegant labels inside, and gilt glass covers; sixty 1-lb., 2-lb., 3-lb. handsome gold-labelled jujube jars, as fig. 2 Maw's; 38 handsome gold-labelled lozengo jars; 3,000 gold-labelled shop bottles, all sizes, from 2-oz. up to 60-oz.; 15 doz. 20, 30, 40-oz. patent oil bottlos, with glass and tin caps: 10 doz. ethor and ess. oil bottles, with glass caps, as figs. 9 and 13 Maw's; 35 doz. 20, 32, 40-oz. blue syr. bottles, as fig. 5 Maw's; 250 ½, 1, 1½ gall, black glass stock bottles, with japan and gilt caps; 8 gradnated glass percolators, 1-qt., ½ and 1-gall.; 3 gross 3j. and 3jj. graduated glass minim measures; 9 gross graduated glass measures, all sizes, from 5ss. up to 40-oz.; 18 doz. graduated mod. glasses, as figs. 4, 13, 14 Maw's; 2 gross 4-pt., 2-pt., 1-pt., 2-pt. glass funnels; 6 doz. No. 3, 4, 5, 6 comp. funnels; 300 comp. iron, marble, and glass mortars and pestles, all sizes; $\frac{1}{2}$ doz. circular tea binns; nine 112-lb. circular japanned store canisters; six 10-gall. circular oil cisterns, with brass taps; Gilbert's superior coffee and toa mills: 30 pairs hand tea-scales, with copper bowls; 3 pairs counter scales, as fig. A Maw's; 12 doz. plate-glass slielves, all sizes; lists on application; special prices for this month only. Lloyd Rayner, 333 Kingsland Road, London, N.

The following goods will be sold at a great sacrifice to make room for stocktaking:—Two 20 ft. long, three 18 ft. long, two 16 ft. long, oue 14 ft. long, three 12 ft. long, two 10 ft. long, one 8 ft. 9 long, one 8 ft. 6 long, two 8 ft. long, one 7 ft. long, three 6 ft. long, one 4 ft. 6 long, one 3 ft. 6 long mahogany top counters, equal to new; one S ft 6 long, ouo 7 ft. long, one 6 ft. long, one 4 ft. 6 long, one 4 ft. long dispensing counters, with counter-case screens on top; one 18 feet loug, one 16 feet long, one 13 feet long, ono 12 ft. long, one 10 ft. 8 long, one 10 ft. 1 long, one 7 ft. 3 long handsome mahogany nests gold-labelled shop drawers, with glass and black knobs, lockors under; mahogany-faced shelving with pilasters, cornices, &c., above, with gold-labelled shop bottles and jars, if required, to form complete fittings similar to Maw's 195, 196, 197; two 2 ft, long, two 2 ft. 8 long, one 2 ft. 4 long, two 5 ft. 4 long, two 6 ft. long, one 7 ft. 3 long, one 10 ft. 4 long, one 12 ft. loug, one 16 ft. long nests mahogany-fronted gold-labelled shop drawors; one 4 ft. 6 long mahogany disponsing screen, as 155 Maw's; one 7 ft. long, one 6 ft. long malogany dispensing counter case screens, as 164 Maw's; one 4 ft. long upright counter case, as fig. 40 Maw's; one 8 ft. 6 long mahogany dispensing screen; one 7 ft. long mahogany bent glass wall case, with glass cupboards under and upright case at back, as 210 Maw's; 5 nests counter drawers, from 4½ ft. to 12 ft. loug, with label drawers, &c.; one 3 ft. 10 long, one 5 ft. 10 long mahogany upright cases, 4 ft. 6 high, 5½ in. deep; two 2 ft. 7½ long upright malogany counter cases, with desks; one 2 ft. long ditto; one 2 ft. 2 long, one 2 ft. 6 long upright malogany counter cases; one 6 ft. long, one 6 foot 6 long, one 8 ft. long, one 9 feet long, one 10 ft. long, one 12 ft. long, one 20 ft. long liandsome maliogany wall casos, with and without cupboards under, similar to Maw's 202, 203, 204, 212; flat mahogany counter cases, two 2 ft. long by 12 in., one 2 ft. long by 13 in., one 2 ft. 6 long by 10 iu., one 3 ft. long by 11 in., one 3 ft. long by 14 in., one 3 ft. long by 17 in., one 3 ft. 4 long by $19\frac{1}{2}$ in., one $3\frac{1}{2}$ ft. long by $22\frac{1}{2}$ in., one 3 ft. 5 long by $16\frac{1}{2}$ iu., one 3 ft. 6 long by 18 in.; flat mahogany counter cases, with bow fronts, oue 19 in, long by 13 in., one 3 ft. 2 long by 15 in.; mahogany desk-shape counter caso, 20 iu. long by 18 iu.; bent glass counter cases, one 2 ft. 9 long by 14 iu., one 4 ft. 2 long by 12 iu., two 3 ft. long by 17 in., one 4 ft. 6 long by 16 in.; five mahogany carved shop chairs; three handsome silvered plate-glass and embossed shop doors; eight haudsome silvered plate glass and embossed window [enclosures; mahogany label cliest, with divisions; 12 drawers, 22 iu. long, 20 in. high, 111 in. deep; 10 mahogany vial stands; 3 doz. mahogany test tube stands. Lloyd Ruyner, 333 Kingsland Road, London, N.

IDecember 15, 1877.

WANTED.

A check till. 7/157.

Hooper's "Medical Dictionary," last edition. 2,18.

Lancet, weekly, posted free. Metcalf, Chemist, Hull.

Globe lamp and bracket, coloured discs. State terms to

A large safe, in good condition. Particulars to Gwilym Evans,

Bentley's "Botany," second-hand, latest edition. Wynter, Seaford, Sussex.

Soda-water machine, a second-hand one. "Chemist," 34 High

Street, Putney, Surrey. Beasley's "Druggist's Receipt Book," late edition, in good order. Matcham, Chemist, Corn Hill, Ipswich.

Mayhew's "Illustrated Horse Doctor," White's "Veterinary Art," by Spoon; both last edition. 17 96.

A few gross dispensing, also a few dozen 2, 4, 6, and 8-ounce pomade bottles. Delivered free in Glasgow. 34 92.

Two dozen 3-inch dark-blue and white ointment jars, flat covers objected to. S. Davies, Bridge Street, Manchester.

Good counter scales; also few dozen shep bottles, cheap. Particnlars and price to Williamson, 300 Bute Street, Cardiff.

The whole or part fixtures and fittings of chemist's or surgeon's, with or without sto k. Thomson, 20 Albright Street,

Chemist and Druggist, January and February, 1871, and January, 1872. State price. Scruby, Handley Villa, Acton, W.

Leech aquarium in exchange for shop round bottles, brass counter scales on malogany box, or chemical books. Geldard, St. Austell.

A trustworthy list of merchants and foreign buyers in the colonies, &c. Address, Mr. Roan, 4 Lucretia Road,

Dispensing screen, six feet loug by about three feet high, to open at front; good and cheap; cash. Seud diagrams, with particulars. 14/95.

FORMULÆ.

Formula for sauce, one of the best made, 5s.; glycerine jelly, a capital form, 1s. 6d.; Roudeletia, as good any maker's, 1s. 6d.; marking ink, A 1 form, 1s. 6d. 15/96.

Twenty recipes for horse and cattle medicines, the result of 30 years' veterinary practice, 5s. Recipes for excellent lavender water, and cold eream, 1s. the two. "Chemist," care of Mr. Filtness, Rotherfield.

Lime juice and glycerine that will not separate, beautifully white, price 2s. 6d.; furniture cream, very good, 1s. 6d.; first-elass tic tincture, an excellent preparation, 2s. 6d.; or the three for 5s. 39/96.

Some excellent recipes for pill coating; Brilliantine hair tonic; crimson marking ink; 12 stamps each, or the four for 3s. An excellent recipe for indelible marking ink (jet black), price 2s. Apply to Mr. Watson, 1 Bedford Street, Gloucester.

Furniture paste, very superior, cleans and puts a brilliant gloss on polished or other furniture, &c., 2s. 6d.; baking powder (original), 2s. 6d. The excellence of these preparations seeme for thom a large sale; profits good. Reference or sample post free on application. H. Hare, 81 South Street,

Coating pills, 5s.; neuralgic paint, 2s. 6d.; neuralgic pills, 2s. 6d.; soothing syrup, 2s. 6d.; a celebrated proprietary congh mixture, 2s. 6d.; inseparable lime cream, 2s.; brilliant furniture cream, 1s.; excellent baking powder, 1s.; the above are thoroughly tested by thirty years' experience. 37/96.

ADDRESSES AND INFORMATION WANTED.

Mrs. Louisa Evans, late of Staines, formerly of Ramsgate; buys

morphia largely. 13/96.

Present address of Dramburg & Co., late of Albert Buildings, Queen Victoria Street, London, agents for Giffey's Milk Food. 3,300.

Food. 3 300.
Mr. J. T. Walklate, Chemist, late of Mount Pleasant, Stokepon-Trent, by G. Treble & Son, 42 Gloucester Street, Hoxton, Loudon.



[MIE declared value of British and Irish exports for the 1 month of November amounted to 16,753,364l., which was again better by 212,737l, than in the corresponding month of 1876. The total value of our exports up to the end of November was 182,789,576*l.*, which is 2,535,772*l*, less than in the corresponding portion of last year, and 23,355,251/. less than in the first eleven months of 1875. It is therefore pretty certain that the year's results will not equal those of 1876. At the same time it is satisfactory to note that we are not apparently getting worse. The current is a decided improvement on the first half of the year, and it must be always remembered that the figures given, indicating as they do value, are not consequently correct in reference to volume of trade.

The past year bas been an exceedingly dull one commercially, but as we have several times pointed ont, notwithstanding the universal complaining which the traders of this country have indulged in, there is reason to doubt whether to the majority at least the last year or two have not been really money-making times. Our imports keep increasing. A had sign, say some. But it is a certain fact that those imports have to be and actually are, distributed by the retailers of the country. Then as to prices. Mannfacturers and their workmen have had to suffer, no doubt. But have the public obtained all the benefits of the reductions? We very much doubt if in the general chorus of complaint retail dealers of any class, except those very exceptionally situated, have much right to join. A writer in the Times has shown recently the improbability of other nations permanently damaging our foreign trade, to say nothing of competition at home. The displacement of England's 200 millions worth of annual produce means an investment of capital which could not be reckoned at much less than a thousand millious. And there is no nation in the world at all able to approach this sum, not to meution the advautages possessed by this country in the established arrangement of a vast and complicated division of labour. It is well to have a glance at the bright side of things occasionally; and, of course, we must not forget that every progress is marked by occasional recessions. We need not be too much exercised, therefore, by the predictions of those pessimist prophets who foresee the ruin of England in the decline of her export trade. The writer in the Times showed that according to the best estimate that could be made the annual income of this nation, the aggregate income, might be reckoned at about 1,200 millions. When it is remembered that our foreign exports only amount to something like 200 millions, and that from that sum a not inconsiderable amount must be deducted for raw material, it is cvident that England could stand the loss of the half or even tho whole of her export trade, and yet remain a great and prosperons nation. This fact is worth remembering, and should be borne in mind by those manufacturers who are apt to treat the home trade with a certain sort of contempt. But none of these arguments should make British manufacturers rolax for a moment in their efforts to hold the splendid heritage which their fathers have won for them by their courage, their untiring enterprise, and, above all, hy their sterling integrity.

The course of business in the chemical markets has shown no special feature to indicate improvement. The demand is about equivalent to that generally experienced at this time of the year, but buyers are fixedly determined to order no larger quantities than they actually require. As makers are very

much in want of regular occupation, the result is an unsteadiness in the quotations.

	Stocks		1mpo	rted	Deliveries		
	1877	1876	1877	1876	1877	1876	
Aloescs	1,969	2,229	2,165	3,526	2 560	1,950	
	2,457	1,875	2,980		2,182	1,556	
Aniseed, Starchts	981	516	263	2,417 1,398	1,019	1.123	
hys & tins	13,928	10,899 4,295	15,91 ± 10.286	16,377	11,793 7,859	11,999 6,759	
Aniseed, Star	242	4.200	511	9,002	625	504	
Bark, Medicinaleks, &c.	1,193	156	3,510	707	2,467	677	
Tanners' tus	10,325 4,674	8,562 4,900	26,327	30,835	24,678	38,291 8,354	
", "srus, &c. ", Tanners'	1,025	1,315	8.761 429	11,019 3,420	9,010 805	4,002	
Bees' Waxbls & srus	457	381	299	485	256	515	
.,cks & cs	1,431	816	2,366	2,088 978	1,905	1,711	
Japan vegetablepkgs	6.447	145	188 5,450	6,146	259 6,544	1,569 7,776	
Japan vegetablepkgs Camphorpkgs	5,605	6,201	6,120	7,651	6,822	8,717	
Cocculus Indicus has to	601	824	507	1,542	737	1,281	
Cardamonschts Cocculus Indicus bgs, &c. Colombo rootpkgs	2,419	2,394 721	572 375	1.181 235	502 473	985 422	
Cream of Tartarcks	85	64	233	265	241	267	
('ll hohe has	349	201	132	216	63	509	
Dragonsblood	153 3,924	64 1,531	238 7,306	189 6,058	145 4,907	162 4.800	
Mediterraneansks	573	1,784	1,115	1,859	955	1,146	
Gum—		1,700	1,1.20	1,0.0		,,,,,,,,	
Ammoniaepkgs	489	500	184	33	183	145	
Animi & Copal, Arabic, Barbary,	8,487	4.282	10,882 2,633	3,827 2,224	7,316 2,613	7,968 2,125	
Turkey,	210	791	1,151	1,563	1.226	1,672	
E.I	1,795	1,421	3.219	2.878	3,070	2,664	
Turkey ,, E.I. ,, Asafœtida ,, Benjamin ,,	303 990	864 657	467 1.670	335 1,802	514 1,287	1,601	
	1,157	2,097	1,817	5,170	2,834	3,692	
Galbanuni	35	46	15	24	12	7	
Gamboge ,,, Guaiacum ,,	175	247	287	461		374	
Kino	45 13	13 18	180	136 10	10	153	
Kowrie ths Mastic pkgs Myrrh, E.l.	789	875	1.423	1,564	1,446	1.641	
Masticpkgs	108	106	26	43	.28	101	
Ondimum	282 3,207	791 1,715	8,127	427 6,353	6,869	372 6,719	
Sandarac	218	252	1,196	1,211	1,494	1,519	
Senegaltns Tragacantbpkgs Ipecacuanbacks & bgs	10	17	2	5	10	29	
Ipecacuanbacks & bzs	208 243	151 152	845 475	223 444	698 395	561	
Jalapbls Nux Vomicapkgs	566	626	345	280	429	358	
Nux Vomicapkgs Oil—	1,407	1,481	1,946	4,291	1,947	5,092	
Castorcks			4	213	4	242	
	4,528	3,829	15,480	16,347	16,403	15,436	
	407			_	0.000	0.000	
Palmtns	431 2,577	583 2,685	2,127 9,918	2,644	2,203	2,926 10,410	
Olivecks, &c.	1,424	627	5,571	3,158	4,612	3,740	
Aniseedcs	306	209	575	761	488	586	
Opiumchts &c.	828 1,536	192 982	703	30	277	144	
Plumbagotns	3,471	3,810	1,946	2,163	2,274	2,404	
Palm ths Cocoanut ,, Olive cks, &c. Aniseed cs Cassia ,, Opium cbts, &c. Plumbago ths Rbubarb chts Safflower	1,096	815	1,823	1,812	1,675	1,752	
Safflower Bengalbls.	1,881	2,292	829	963	1,477	2,015	
Rombay .	297	378	12	19	77	4	
Persian bilts Saltpetre, Pt. tns Sarsaparilla bis Senna bis, &c. Shellac cs, &c.	486	607	20	_	141		
Sarsaparilla ble	4.742 1,026	5,474 1,077	8,096 2,486	9,573 2,749	8,714	10,177 2,400	
Sennabls, &c.	3,311	2,266	4,534	1,808	2,375 3,723	2,291	
Shellaccs, &c.	39,491	25,363	42,453	39,129	29,864	32,341	
Terra Japnea, Gambier ths Cutch,	1,586	939	7,375	7,013 2,385	6,726	6,363 2,537	
Turmerie,	2,320 1,134	350	2,108 2,254	1,465	2,506 1,755	1,526	
	1	1					

Soda crystals have sold steadily at 72s. 6d.; ash also keeps at last month's quotations; bicarbonate is slightly easier at 10s. to 10s. 3d. Potash salts unchanged. Tartaric acid is firm, foreign crystals bringing 1s. 4½d., English 1s. 5d. Citric has been freely bought during the past fortnight, and buyers are now willing to pay 2s. 4d., but sellers demand 2s. 5d. Arsenic has advanced to 9s. to 9s. 3d. for powder. Refined saltpetre is a shade easier. Slightly lower quotations are given for refined borax, Californian selling at 35s. to 37s., and English refined 38s. 6d. to 40s. Bleaching' powder sells steadily at 6s. 3d., delivered. Contracts for delivery in London during the whole of next year can be made at an advance of about 6d. per cwt. on that price.

Quinine makers are not yet in want of orders, and at late sales quinine-yielding barks were taken readily at fractionally

better rates. The recent advance in iodine is maintained, but speculative dealings in that product have ceased for the present. Quicksilver is a trifle lower, and mercurials are 1 d. less than last month.

A steady business has been transacted in drugs, but with very few noteworthy changes in price. Sales of opium show no advance, and the Smyrna holders seem likely to be baulked of the extra profit they hoped to make out of the war panic. Camphor has dropped again, China having sold at 80s. and Japan at 82s. 6d. Some good buchu leaves have been in the market and have realised rather high prices, as much as 1s. 7d. having been obtained for long narrow green. Broad leaves have sold down to 1\frac{3}{4}d. Castor oil has been more in demand, and almond oil keeps its advance. Cod liver oil, on the contrary, is rather lower. American peppermint is now offered cheaper, but anisced has slightly advanced. Musk is slow of sale and rather lower for China kinds.

At the periodical sales of isingless, held at the beginning of this week, there was a much larger supply of Brazil than for some time past, and prices declined 3d. to 4d. per lb. for all good to fine qualities, and 2d. for ordinary. West India sold 1d. to 2d. cheaper. The larger supply of East India was nearly all sold with good spirit, Bombay tongue at irregular prices, and cake below previous extreme rates; Penang and Saigon steadily for both tongue and leaf, but cheaper for cake.

Cochineal sales were held on the 5th inst. Holders were firm for an advance, but the demand was not active. What was let go made 1\frac{1}{2}d. to 2d. higher prices.

Olive oils are repeatedly said to be of very limited produce this year, but there are still no speculative buyers. The Italian holders are even willing to make slight concessions for ready eash, but the stock in this country is large. Linseed oil has tended downwards, and is now obtainable at 281. 7s. 6d., nearly 11. lower than last month. Large dealings in refined petroleum have kept up the spot price, but there is a manifest tendency towards a slight decline, and for forward delivery rates are a trifle easier. American turpentine has somewhat strengthened ite position.

At the drug sales on Thursday last it was announced that no further auctions would take place until January 10. Only a small amount of business was done. Good aloes and cinchona bark were in demand, balsam capivi was a trific, as was also almoud oil. Some good Jamaica honey made 46s. The sandal wood referred to last month tainted with assafætida was again put up and bought in this month at 19%.

Medical Gleanings.

BENTAMARI is a bitter drug used by the blacks of Senegambia. Need we add that some enthusiastic doctor has found it to be superior to quinine?

Salicylic Acto in Gout.—Dr. Rube relates, in the Deutsche Zeitschr. f. pr. Med. an obetinate case of gout, which had resisted all other forms of treatment, but which was promptly relieved by the free administration of saheylic acid. About two and a half drachms were given during the first twenty-four hours. On the third day the patient was free from pain, and able to walk about. His appetite was rapidly regained, and at the time of the report, several months after treatment, he had bad no relapse.

A MEDICAL RESTAURANT has been established in London, or so at least says the London correspondent of an American journal, on the principle that diseases can generally be cured by a special system of diet, and that they are caused chiefly by improper food. On the entrance of a visitor, a physician asks him regarding his ailments. His meal is then prescribed, and he is allowed to cat no more than is presented to him. At the close he is diemissed to smoke a medicated cigar, and to sip coffee, cannomile tea, or whatever other beverage may be considered advisable. The idea is ingenious, but we doubt if it has yet or even could be realised.

Monthly Price Current.

The prices quoted in the following list are those actually obtained in Mineral Lane for articles sold in bulk. Our Retail Subscribers in a to not expect to purchase at these market prices, but they may draw from them it full conclusions respecting the prices at which articles are offered by the Wholesale Pirms.

offered by the Wholesale Pict	ns.					1				
CHEMICALS.		1877.		1870.						
ARSENIC, lump , powder BRIMSTONE, rough per ton 1 roll per cwt. flour , IODINE, dry per oz. IVORY BLACK, dry per oz. IVORY BLACK, dry per cwt. MAGNESIA, calcined per lb. MERCURY per cwt. orange , PRECIPITATE, red per lb.	0 0 0 1 1 240 37 49 25 9 11 0 8 1 45 21 33 3	5 5 5 0 0 0 0 0 6 6 10 2 6 10 7		\$. 0 2 7 7 0 0 0 0 0 0 0 0 0 300 0 0 50 0 0 9 115 10 13 0 0 0 0 0 0 0 0 0 0	d. 0 5 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	24 00 00 01 1 1295 422 541 265 100 120 130 08 8 1 170 23 37 44	3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	to	27 00 00 00 330 0 56 26 11 139 0 0 0 0 0	d. 8 0 0 5½ 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
PRUSSIAN BLUE ,,	3	0		0	0	0	0	••	0	0
SALTS— Alumper ten 1 powder, 1 Ammonia:	.37 .55	6		145 0	0	115 155	0		150 160	0
Carbonate per lb. Hydrocblorate, crude,	0	5 }	••	0	5%	0	5	• •	0	51
white per ton 5 British (see Sal Am.)	60	0	••	720	0	560	0	••	670	0
Sulphateper ton 4 Argol, Cape per cwt. Red, Oporto, red., Sicily,	67 32 60	0 0 0 6 0	•••	415 95 73 33 65	0 0 0 0	375 80 65 33 60	0 0 0 6 0		385 91 75 31 62	0 0 0 0 0
		3 0 6 2		0 38 40 3	0 0 6 8	8 30 40 3	0 0 0 8		0 40 42 0	0 0 0 0
Copper: Sulphateper cwt. Copperss, greenper ton Cerrosive Sublimate p. lb. Cr. Tartar, French, p. cwt. 1 brown Epsom Siltsper cwt. Glauber Sitsper cwt.	20 55 2 01 0 4 3	0 0 7 0 0 3	•••	20 60 0 0 0 6 4	3 0 0 0 0 0 0 6	22 55 3 114 95 5 4	0 0 1 0 0 0 3 6	•••	22 65 0 115 0 7 5	6 0 0 0 0 0
Magnesia: Carbonate ,,	11 47	0	••	20 0	0	11 45	0		20 0	0
Potash: Bichromateper lb. Carbonate:	0	93		0	-1	0	4 7		0	0
Petashes, Cunada, 1st sortper cwt. Pearlashes, Canada, 1st	23	0	••	23	6	26	0		0	0
sortper ewt. Chlerateper lb. Prussiate	29 0 0 0	0 8 10½ 0	•••	0 0 0	0 S1 111 0	34 0 1 0	0 9 0 0	••	35 0 1 0	$0 \\ 9\frac{3}{4} \\ 0\frac{1}{4} \\ 0$
rcd ,, Tartrate (see Argol and C Potassium:	rea	m e	f Ta	rtar)						
Ohlorideper owt. Iedideper lb. Quinine: Sulphute, British, In	13	6	••	0 14	0	0	9	••	8	0
buttlesper oz.	11 11 0 42	6 0 7 0	::	0 11 0 43	0 3 71 0	11 10 0 44	0 0 71 0	••	0 10 0 45	0 3 8 0
	20	6	••	21	0	19	9		20	0
per ewt. British, vafined Sada: Brearb an ite, p.e.wt.	19 24 10	6 9 0		20 26 10	3 0 3	18 23 12	6 6 0		19 24 0	6 9 0
Carbonate: Soda Adm. per deg. Soda Orystals per tou Hyposalphite, per cwt. Nitrate	0 72 0 15	1 § 6 0 0		0 0 0 15	17 0 0 6	0 87 0 12	23 6 0 6	::	90 90	0 0 0
SUGAR OF LEAD, Whitecwt. Brown, cwt. SULPHUR (200 Brimstone)	36 26	0	••	37 0	0	37 27	0	••	38	0

			187			1876.	
VERMINION, English ,, C ma	1 2 2		to	4. 1 0 0	d. 5 0	3 6 0 (?. 5 0
Atons, Repatie per cwt. Secotrine,	- 85	- 0		180 200	0	70 0 160 (0
Oupe, good	47 41 41 81		••	51 46 163 85	0 0 0 0	42 0 48 (55 0 19)	0 0 0
Canadaper lb. Caprvi,	1	() 4 <u>1</u>		0	0 6	1 4 0	0
Peru , Toln , BARKS—	4 5 18	10	••	0 6	0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0
Cauel a alb	15	0 6 6	•••	22 23 3 4	0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6 } }
guill ,, Carthagens ,, Columbian,	1 2	9	•••	7 3 5	0 7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 7 3
E. I	1 0 3	2 8 6 3		4 8 1 5	0 3 6 0	0 4 /) £
CAMPHOR, Courtper cwt. Jupan	0 85 86	$\frac{21}{0}$ 6	•••	0 0 87	3 0 6	0 1 1 1 77 6 87 6 87 0 89 6	1
RESULE 13, per lb. CANTHARIDES	1 2 50 9	2½ 0 0 0	•••	0 5 200 30	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$; }
DRAGON'S BLOOD, Ip. p. cwt. FRUITS AND SEEDS (see als Anise, C time Star per cwt.	95 o Se 92	6		280 Spices 102	0 i). 6	140 0 269 0)
Spanish, & 2. ,, Beans, Tonquia, er lb. Cardamoms, Malabar goed,	30 1 5	0 9	• •	45 5 5	0	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
inferior, Aleps, Mutes,	$\frac{1}{2}$	6 6 2		4 5 3	5 6 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3
Cassia Fistult per cwt. Castor Seeds , Cocculus Indicas ,	3 80 0 9	6 0 0 6		89 0 11	6 0 0	4 6 5 0 10 0 32 0 5 0 10 6 9 0 11 0	
Colocynth, appleper lb. Croten Seedsper cwt. Onbobs	$\frac{1}{26}$ $\frac{27}{20}$	0 0 0		1 27 28 32	9 6 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Cummin "," Dividivi," Fenugreck, Guinea Grains,	12 6 28	0 0 0		15 10 0	0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Juniper Berries ,, Nux Vemica ,, Tamariuds, East India,, West India ,,	6 9 0 25	6 0 0 6	•••	9 14 0 27	0 0 0 6	8 0 10 0 9 0 12 0 10 0 15 6 10 0 15 6	
Vanilla, large per lb. inferior ,, GINGER, Preserved, per lb.	27 15 0	0 0 41		31 26 0	0 0 7	26 0 40 0 13 0 20 0 0 4 0 8	
HONEY, Chili per cwt. Jamalca ,, Australian ,, IPECACUANHA per lb.	44 38 0 5	0 0 0 6	••	48 43 0 5	0 0 0 0 9	40 0 47 6 35 0 46 0 0 0 0 0 4 0 4 6	
ISINGLASS, Brazil ,, Tongue sort ,, East India ,,	3 3 2	0 4 3	•••	4 5 5	9 5 4	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
West India ,, Russ, long staple ,, inferior ,, Simovia	4 8 0 1	0 0 0 6	•••	0	7 0 0 0	4 1 4 9 9 0 12 6 0 0 0 0 2 0 3 3	
JALAP, good, infer. & stems ,, Lemon Juice per degree	0 0 0	8 7 03	••	0	71	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	122.22
LIME JUICEper gall. LIQUORICE, Spanish per cwt. Liquorice Root MANNA, flakyper lb.	34 0 3		••	39 0 4	0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	1 23 35	0	••	51	6 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Almond, expressed per lb. Caster, 1st pale, second,	0 0	5 4½	••	0 .	0 0 42	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2
	2 0 25	$\frac{2\frac{1}{2}}{6}$	••	0	6 23 n	0 21 0 0	
Bayper cwt. Berganiet per lb. Cajeput per bottle	10	0	••	0 15	6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Cassia, Clinaamonper oz.	9 3 3	0 .	••	9 3 0 0 5 0 0 3	3	9 0 9 3 3 10 4 9 2 6 6 6	
Citronelle ,, Clove ,, Juniper ,,	0 8 0	2½ 6 0	• •	0 (0 2 0 0 9 0 0 0	
Lawenderper lb: Lemengrassper oz.	5	0	•	7 (8 6 9 2		1 8 7 0 7 0 9 6 0 21 0 0	

Example Oils continued:	1876.	1877.	1876.
Essential Oils, continued:— s. d. s. d. Neroliper oz. 3 0 to 6 6	s. d. s. d. 3 0 to 6 6	Oils, continued:— £ s. £ s. Whale,SouthSea,pale,pertun 35 0 to 0 0	£ s. £ s. 35 0 to 0 0
Nutmeg, 0 5 0 0 Orangeper lb. 4 3 7 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	yollow ,, 33 0 34 0	32 0 34 10
Otto of Rosesper oz. 16 0 22 0	13 0 25 0	brown ,, 30 0 31 0 East India, Fish ,, 25 10 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Patchonli ,, 1 9 3 0	2 0 3 6	OLIVE, Galipoliper tou 0 0 0 0	48 0 48 10
Americanper lb. 10 9 12 6	12 6 14 9	Levaut , 48 10 0 0	47 10 48 0
English , 24 0 25 0 Rosemary , 2 0 2 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Mogador , 48 0 0 0 Spanish , 49 10 0 0	0 0 0 0
Sassafras ,, 2 3 2 6	2 3 2 6	Sicily ,, 49 0 0 0	0 0 0 0
Thyme, 0 0 0 0	0 0 0 0	Cocoanut, Coehla, 43 0 0 0 Ceylon ,, 38 10 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Mace, expressed per on. 0 6 0 10	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Mauritius ,, 39 0 40 0	31 0 37 0
inferior , 10 0 12 0	10 0 18 0	GROUND NUT AND GINGELLY: Bombay 0 0 0 0	0 0 0 0
QUASSIA(bitter wood) per ton 100 0 130 0 RHUBARB, China, good and	100 0 140 0	Madras 0 0 0 0 PALM, fine 40 10 0 0	36 0 37 0
fineper lb. 2 6 3 0	3 2 4 5	Linseed	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Mid. to ord, 0 9 2 1 Dutch Trimmed, 0 0 0 0	$\begin{smallmatrix}0&8&\dots&2&11\\0&0&\dots&0&0\end{smallmatrix}$	RAPESEED, English, palo 39 10 0 0 brown 37 10 0 0	$\begin{vmatrix} 41 & 0 & \dots & 0 & 0 \\ 38 & 15 & \dots & 39 & 0 \end{vmatrix}$
ROOTS-Calumbaperewt. 23 0 38 0	18 0 26 0	Foreign, pale 0 0 0 0	40 10 41 0
Chine	0 34 0 4	brown 0 0 0 0 COTTONSEED 33 0 0 0	30 0 0 0
Galangalper ewt. 20 0 21 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	LARD 50 0 0 0	58 0 0 0
Helleboro, 0 0 0 0	0 0 0 0	TALLOW 30 0 54 0 s. d. s. d.	31 0 46 0 s. d. s. d.
Orris, 55 0 65 0 Pellitory, 70 0 76 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Turpentine, American, eks. 24 6 24 3 French ,, 0 0 0 0	30 0 30 3
Pinkper lb. 0 0 0 0	0 0 0 0	PETROLEUM, Crude 0 0 0 0	0 0 0 0
Rhatany, 0 4 0 8 Seneka, 3 0 3 6	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	refined, per gall. 1 0½ 1 0 Spirit ,, 0 8 0 94	2 4 0 0
Snake, 0 10 1 0	0 6 0 7	SEEDS.	
SAFFRON, Spanish, 30 0 32 0 SALEP per ewt. 210 0 300 0	0 0 0 0	CANARYper qr. 46 0 55 0 CARAWAY, English per cwt. 43 0 45 0	60 6 75 0
SARSAPARILLA, Lima per lb. 0 0 0 0	$\begin{smallmatrix}0&5&\dots&0&7\\1&9&\dots&2&0\end{smallmatrix}$	German, &c 48 0 49 0	0 0 0 0
Honduras , 0 11 1 6	1 1 1 6	HEMPper qr. 0 0 0 0	$\begin{bmatrix} 12 & 0 & \dots & 21 & 0 \\ 40 & 0 & \dots & 45 & 0 \end{bmatrix}$
Jamaica, 1 2 2 6 SASSAFRASperewt. 9 0 11 0	1 9 3 0	LINSEED, English , 0 0 0 0 Black Sea & Azof 55 0 0 0	53 0 66 0
SCAMMONY, Virgin per lb. 0 0 0 0	21 0 30 0	Calcutta ,, 52 6 0 0	53 6 0 0
second & ordinary ,, 0 0 0 0 SENNA, Bombay, 0 1 1 6	$\begin{smallmatrix}6&0&\ldots&22&0\\0&1&\ldots&0&4\end{smallmatrix}$	Bombay ,, 57 0 0 0 St. Petrsbrg. ,, 52 6 53 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Tinnivelly, 0 1 1 6	0 21 2 0	Mnstard, brownper bshl. 0 0 0 0	12 0 15 0
Alexandria, 0 5 2 0 SPERMACETI, refined , 1 4 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	white,, 13 0 16 0 Poppy, East India, per qr. 54 0 54 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
American 1 3 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	SPICES.	
SQUILLS, 0 2½ 0 3½	0 2 0 3	Cassia Ligneaper cwt. 44 0 40 0 Vera , 22 0 45 0	52 0 65 0 22 0 44 0
AMMONIACI drop per cwt, 1 15 2 3	\pounds s. \pounds s. 2 2 2 10	Buds, 70 0 73 0 CINNAMON, Ceylon:	82 0 85 0
lump , 1 10 1 15	1 0 1 14	1st quality per lh. 2 2 3 6	1 10 3 7
Animi, fine washed , 12 0 13 15 bold scraped , 9 15 11 15	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2nd do, 2 0 2 10 3rd do, 1 9 2 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
sorts ,, 6 15 9 10	6 10 9 5	Tellicherry , 2 3 2 7	2 9 3 0
dark ,, 4 0 6 12/6 ARABIC, E.I., fine	4 0 6 0	CLOVES, Penang, 1 11 2 2 Amboyna, 1 5 1 7	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
pale picked ,, 3 0 3 16	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Zanzibar, 1 2 1 3	1 1 1 3
srts.,md.to fin. ,, 2 5 2 17/6 garblings ,, 1 10 2 0	1 1 2 4	Ord. to good ,, 53 0 90 0	54 0 90 0
TURKEY, pick.gd. to fin. ,, 6 0 9 10	6 10 10 15 3 0 6 10	African, 25 0 26 0 Bengal 22 0 22 6	$\begin{bmatrix} 29 & 0 & \dots & 0 & 0 \\ 27 & 0 & \dots & 27 & 6 \end{bmatrix}$
in sorts ,, 2 10 3 16	2 5 3 5	Malabar ,, 26 0 28 0	28 6 0 0
Gedda , 1 14 1 19 BARBARY, white , 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Coehin, 50 0 115 0 PEPPER, Blk, Malabar, perlb. 0 4½ 0 5½	50 0 115 0
brown ,, 2 7 2 12	1 12 1 16	Singapore, $0 3\frac{1}{2} 0 3\frac{1}{2}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Australian, 1 19 2 5 Assafetida,em.to fir , 0 15 2 0	0 18 2 10	Cayenne , 1 4 3 0	2 0 2 8
BENJAMIN, lst & 2nd ,, 4 5 8 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	MACE, 1st quality,, 2 2 3 3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
3rd 2 4 5 10	3 10 5 6	NUTMEGS, 78 to 60 to 1b. ,, 3 11 4 6	3 9 4 9
COPAL, Angola red ,, 6 0 6 15 Benguela ,, 4 0 5 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	90 to 80 ,, ,, 3 2 3 10 132 to 95 ,, ,, 2 10 3 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
s. d. s. d.	s. d. s. d.	PIMENTA 0 4 0 4}	0 4 0 41
Sierra Leone, per lb. 0 6½ 0 9 Manillaper cwt. 18 0 27 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	VARIOUS PRODUCTS.	
DAMMAR, pale ,, 75 0 79 0	66 0 68 0 65 0 67 0	COCHINEAL—	2 10 3 0
EUPHORBIUM ,, 9 0 15 0	11 0 16 0	, silver ,, 2 1 2 3	2 7 2 9
GALBANUM per lb. 0 9 1 3 GAMBOGE, pckd. pipe per ewt. 190 0 290 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$,, pasty ,, 2 0 0 0 Mexican, black ,, 2 0 2 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
(HUALACUMper lb. 1 10 2 5	1 3 3 0	" silver " 1 10 1 11	2 7 0 0
Kinoper ewt. 81 0 86 0 Kowrie, rough, 24 0 43 0	40 0 50 0 32 0 58 0	Teneriffe, black, 2 2 2 11 silver, 2 0 2 3	2 8 2 10
seraped sorts ,, 46 0 55 0 MASTIC, pickedper lb. 4 0 5 0	60 0 70 0	SOAP, Castileper ewt. 26 0 33 0	33 0 34 0
MASTIC, pickedper lb. 4 0 5 0 MYRRH, gd. & fino per ewt. 152 0 240 0	160 0 170 0	SPONGE, Turk.fin.pkdprlb. 0 0 0 0	12 0 16 0
ord. to fair ,, 80 0 130 0	100 0 150 0	Fair to good ,, 0 0 0 0 Ordinary ,, 0 0 0 0	1 0 11 0
amber & ylw. ,, 31 0 43 0	36 0 50 0	Bahama ,, 0 0 0 0	0 6 3 0
garblings , 15 0 28 0 SENEGAL , 60 0 65 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	TERRA JAPONICA— Gambierper ewt. 18 6 18 9	20 0 20 3
SANDARAC , 87 0 105 0	75 0 85 0	Free cubos , 29 6 30 6	34 0 36 0
SHELLAC, Orange, 73 0 91 0 20 0 78 0	100 0 160 0 95 0 115 0	WOOD, Dyk, Bar per ton £3 10 £3 0	£3 5 3 7/6
THUS , 20 0 21 6	20 0 21 6	Brazil, 14 0 20 0 Cam, 18 0 34 0	18 0 31 0
in sorts ,, 25 0 175 0	25 0 175 0	Fustle, Cuba , 8 0 8 10	8 10 9 0
SEAL, pale per tun 34 0 0 0	£ s. £ s. 34 0 0 0	Jamaica, 5 5 5 10 Logwood, Camposchy, 8 15 9 0	9 10 10 0
yellow to tinged ,, 80 10 83 0	32 0 33 0	Honduras , 6 10 6 15	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
brown , 29 0 3) 0 SPERM , 87 0 0 0	31 0 31 10 90 0 0 0	Jamaica 5 0 5 10	5 5 6 0
Bony , 0 0 0 0	0 0 0 0 41 11 0 0	Lima, first pile , 9 15 10 0 RED SANDERS , 6 0 6 10	8 10 9 0
OD			



8./lim, -Your four years' apprentic ship from 1859 to 1863, and your subsequent two years' assistantiship, unfortunately, will not exempt you from my of the pharmaceutical examinations. You will have to pass the Pre-liminary and Minor before you can commence business.

C. II. A. say: (1) "Would you kindly tell me something to colour a perfume green, so that when evaporated it will not leave a stain?" We should have been very happy to do so if we had been able. But this supposes a green colouring matter which is volatile, and we do not know of such a one. The erect colour of the essence of wood violets of the shops is, we believe, produced by adding green leaves to the perfume. Although the stain it icaves is very slight, yet it is quite perceptible. (2) "Also a good liquid for silvering, so that by dipping any little trinkets, &c., in it they will have the appearance of silver." Silvering is not such a simple operation as our correspondent seems to imagine. The results produced by dipping are always inferior to those produced by electricity. One solution is made by dissolving 100 parts sulphite of soon and 15 of nitrate of silver in water. The metal is to be dipped in the solution. A better preparation is made by mixing 30 grains each of nitrate of silver and common salt with 3½ drachms cream of tartar. The powder is to be moistened and rubbed on the article.

W. T.—We think you will find this a good show colour which will not deposit:—Deposit 2 ozs. of blue vitriol in a pint of water with ½ oz. of oil of vitriol. Glycerine and Lime Juice.—The following formula is given in Cristiani's "Perfumery" (reviewed in this number), but the author says "there are no means of making it a perfectly bomogeneous compound except by agitation":—

Glycerine			 	 2 ozs.
Juice of 6 lemons	3			
Castor oil				 2 ozs.
Aleohol		,	 	 8 ozs.
Liquor potasæ		·	 	 ½ oz.
Orange flower wa	iter		 	 4 ozs.
Oil of lemon			 	 2 drachms.

Mix the oil and alcohol, then the liquor potassæ and oil of lemon, then mix the other ingredients together and add them to the first mixture by degrees, agitating frequently.

Facto asks for a formula for making "liq, copaible et cubeh et huchu" as sent out by the wholesale houses. Perhaps somo one can furnish it.

Mr. Fever .- Rather ontside our range.

Subscriber (Ireland) writes :- "Will you kindly inform me if a 'chemist and druggist' of several years' standing can legally employ a pharmacist to compound prescriptions on the premises? If so, does the compounder's name require to be exhibited in the department, or expressed on bottles, labels, &e., iu addition to the proprietor's name, or, for instance, could Jones & ('o. legally compound where one only of the firm was licensed, as I find no clause in English or Irish bye-laws dealing directly with this question. Your reply in detail would interest and much oblige the writer, and doubtless a number of your readers." The Euglish law undoubtedly applies expressly to the proprietor of a husiness. He must be registered, and he alone need be. An unregistered man might keep a dozen registered assistants, but that would not benefit his position legally. So, too, if A. and B. are in partnership as chemists and druggists, A. being registered, hut not B., such business would be illicit. Probably the firm could be prosecuted, but certainly B. could. In Ireland the conditions seem to us to be similar Section 30 of the Irish Pharmacy Act says "It shall be unlawful for any person to sell or keep open shop for retailing, dispensing, or compounding poisons . . . or medical prescriptions, nnless such person be registered," &c. Section 31 exempts from this Act chemists and druggists in business at the time of the passing of the Act, but it is expressly stipulated (as we read that section) that such chemist and druggist (unregistered) is not allowed to keep open shop for compounding poisons or medical prescriptions. So that the person who keeps the open shop for such purposes would be, in our opinion, a law-breaker.

Citric.—The United Kingdom Mineral Water Trade Review is published monthly by Barrett, Sens & Co., 21 Seething Laue, F.C., price 6d. Tho Mineral Water Recorder is published monthly, price 6d., or yearly subscription 6s., by M. Adams, 113 New North Road, N.

Ignoramus asks:—"Can lactic acid be converted into hutyric acid?"
Not artificially, but the common process used to produce lactic acid will, if allowed to continue, convert that acid into butyric acid. The process we refer to is as follows:—2 gallons of milk are mixed with 6 lbs. of raw sugar, 12 pints of water, 8 ozs. putrid cheese, and 4 lbs. of chalk, clied to a creamy consistence with some of the liquid. The mixture is maintained at a temperature of about 83° Fahr., and occasionally stirred. The chalk is added to neutralise the lactic acid, which would otherwise congulate the

casein and stop the ferment tion. After ten to twenty days the mixture will consist of a "mi-solid mu" of cale on lictate. If this be left undisturbed it will gradually all appear and be converted into soluble calcium burgrate, whence the mid may be obtained by detillation with an Iphuric acid. The reaction "probably" take place according to this equation :—

$$2C[H,O] = C[H,O] + 2[CO] + 2H$$

or 2 molecules of lactic acid give α e molecule butyric acid, 2 of carbon cloxide, and 2 of hydrogen.

Plan,—Hyposulj hite of socials scattent by rannifacturers in worden casks, and is kept by photographic obenists in open drawers, so that there is no need to keep it in stoppered bottles. If it is kept in a dry place it will remain unchanged for an Indefecte period. No doubt, like most other things, it would keep better in crystals than in powder. The powder would probably cake very soon. The add is so soluble in water that it matters very little how it may be given to cattle. Probably as good a plan as any would be to mix it with a bramash. Perhaps the "Veterinarian's Pocket Remembrancer," by G. Armitage, published by Churchill at 31, would suit your purpose.

Pot. Nut. wants "the best book published at about 10s. to give a correct epitome of diseases in general; can es, treatment, &c.; in fact, such information as would be advantageous for a chemist and druggist to know, so that when a doctor speaks of diseases in technical terms one could be able to understand what is meant." As far as we can judge, Hooper's "Physician's Vade Meenm," 9th edition, published by Churchill at 12s. 6d., would answer your purpose.

Nemo asks if Lescher's "Elements of Pharmacy" is a suitable book for a Minor student. We think so, but would strongly advise "Nemo" not to trust to any single hook. He will find Royle's "Manual of Materia Medica" and Flückiger's and Hanbury's "Pharmacographia" excellent supplements for the Materia Medica, while Bentley's "Botany" and Attfield's "Chemistry" will help out those subjects.

J. R. wants onr opinion as to the best work on the detection of adulteration of the different oils of commerce, if there be such. There is no such book yet published. "J. R." could compile a g cat deal of information on the subject from Watts' "Dictionary of Chemistry," and would find there all that is known. It would, however, have to be collected from the different volumes.

Another Ignoramus (our old friend is not dead yet, it appears) wishes to know the title, publisher, and price of the best work on physiology for one who knows nothing about it. Huxley's "Lessons in Elementary Physiology," published at 4s. 6d. by Maemillan, is undoubtedly the very thing for him.

J. Dore.—The formula for glycerine jelly is not intended to make it transparent. If you wish it quite transparent, you will find the following answer:—Take 1 oz. transparent soap, dissolve it in 4 ozs. of water and 4 ozs. glycerine, by the aid of heat. While still warm add 20 ozsglycerine, and when nearly cold add perfume and pour into glass jars. This will make a transparent jelly of a pale amber colour.

S. M. Davis.—The list of poisons published in the London Gazette of December 21, 1869, only contains the additions to that published in the Pharmacy Act of 1868. You will find the table complete in our Diary.

Oily .- The French Huile blanche is the oil of the seeds of Paparer so m niferum and other species. It is also called Oliette, and, more correctly Huile d'oliette and Huile de pavot; in German, Mohn öl and Mohusamen öl; in English, poppy oil, poppy seed oil, and oil of poppy seeds; Latin, Oleum papaveris. The seeds yield 48 to 50 per cent. The oil is drying, sweet, pale golden in colour, sp. gr. '9243 to '9245, solidifying only at 0° F. It keeps well. Exposed in thin layers to the sun it becomes perfectly colourless'. In the Madras Presidency and some other parts of India, it is more used than any other oll for lamps and culinary purposes. It is used for salads, by oil pleture painters, for ordinary paints and varnishes, and in soap making. It is extensively used for the adulteration of almond and other olls, and is sometimes sold as inferior qualities of the former. It is occasionally, though rarely, used as a mild alimentary vehicle in medicine. Considerable quantities of it are manufactured and sold annually. The cake remaining after the oil is expressed, called poppy cake, is used for manner. Seneca oil is a very erude, blackish, strong smelling native petroleum, which was collected in the oil regions of Pennsylvania before the discovery of the petroleum wells. It is so called because it was collected by the Seneca Indians. to whom also Rad. Senegre owes its name. The oil is well known in the drug stores of the neighbourhood, and is used for rhenmatism, &c.

Mr. G. Erans.—The journal you refer to is the property of the society, which is of course responsible for all payments in reference to it. As a matter of fact the said journal is a valuable commercial property.

Dedelible Ink (Reducod).—Macerate for an hour under frequent shaking introd of silver, pure cream of tartar, each 24 parts, in aqua ammonize 96 parts; then add white sugar 6 parts, gum arabic 10, five lampblack 1-1 yater 90 parts, previously mixed.



